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Attorneys for *Plaintiff*
AMERANTH, INC.

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

AMERANTH, INC., a Delaware corporation,

Plaintiff,

vs.

HAWAIIAN GARDENS CASINO, a California corporation & DOES 1-10, inclusive,

Defendant.

Case No. **CV13-03699 GW (Ex)**

COMPLAINT FOR PATENT INFRINGEMENT

[DEMAND FOR JURY TRIAL]

Plaintiff Ameranth, Inc., for its Complaint against Hawaiian Gardens Casino, & DOES 1-10 avers as follows:

PARTIES

1. Plaintiff Ameranth, Inc. ("Plaintiff" or "Ameranth") is a Delaware corporation having a principal place of business at 5820 Oberlin Drive, Suite 202, San Diego, California 92121. Ameranth manufactures and sells, inter alia, gaming information technology solutions under the trademarks 21st Century Casino™ ("21CC"), Poker Room Manager ("PRM") and others, including casino waitlisting, tournament, marquee, player tracking and dealer coordination products and solutions.

2. Defendant Hawaiian Gardens Casino ("Hawaiian Gardens") is, on information and belief, a California corporation having a principal place of business at 21520 S. Pioneer Blvd. Ste. 305, Hawaiian Gardens, California 90716. On information and belief, Defendant Hawaiian Gardens makes or uses gaming information technology products, software, components and/or systems within this Judicial District including products, software, components and/or systems including casino gaming monitoring/management, dealer coordination, waitlisting, player tracking, player management, marquee/public display, compensation accrual and management and internet solutions.

3. The true names and capacities of the Defendants named herein as DOES 1 through 10, inclusive, are unknown to Plaintiff at this time. Therefore, Plaintiff sues said Defendants by such fictitious names. Plaintiff will amend this complaint to allege these Defendants' true names and capacities when they have been ascertained.

JURISDICTION AND VENUE

4. This is an action for patent infringement arising under the Patent Laws of the United States, 35 U.S.C. §§ 271, 281-285.

5. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

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6. On information and belief, Defendant Hawaiian Gardens has engaged in the installation, maintenance and use of gaming information technology services, products, software and/or components in the United States, including this Judicial District, including services, products, software, components and/or systems including casino poker gaming monitoring/management, dealer coordination, waitlisting, player tracking, player management, marquee/public display, compensation accrual and management and internet solutions either itself or in concert with IT Casino Solutions, LLC ("ITCS").

7. This Court has personal jurisdiction over Defendant Hawaiian Gardens as Hawaiian Gardens has committed acts of patent infringement in this Judicial District including, *inter alia*, making or using infringing services, products, software, components and/or systems in this Judicial District.

8. On information and belief, Defendant Hawaiian Gardens has knowingly and actively infringed, contributed to infringement and/or induced others to commit such acts of infringement in this Judicial District.

9. Venue is proper in this Judicial District pursuant to 28 U.S.C. §§ 1391(b) and (c) and 1400(b).

BACKGROUND

10. Ameranth was established in 1996 to develop and provide innovative information system and data synchronization technology solutions for the hospitality industry. Ameranth has been widely recognized as a technology leader in the provision of wireless and internet-based systems and services to, *inter alia*, restaurants, hotels, casinos, cruise ships and sports venues and has been awarded multiple "best product" technology awards, as well as been widely recognized as an innovator by both national and hospitality/gaming publications. Ameranth's inventions enable, in relevant part, gaming and/or casino poker gaming monitoring/management, waitlisting, tournament, player tracking, marquee/public display, compensation accrual and management, internet and/or dealer coordination

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functions. Ameranth's Poker Room Manager (PRM) family of products have been installed in many of the largest and most successful poker rooms around the world and in the United States including within this Judicial District (which is home to the three largest poker rooms in the world and includes the greatest concentration of poker-related activities in the world).

11. Development of the inventions leading to the patent-in-suit began at least as early as late 2001 at a time when there were no integrated poker waitlisting, marquee/public display, player tracking, player management, tournament, compensation accrual and management, internet or dealer coordination information technology solutions. Ameranth's later-acquired division, QueueOS, conceived and developed its breakthrough innovations to provide systemic integrated solutions directed to uniquely meeting these previously unmet industry needs. After acquiring QueueOS in 2006, Ameranth merged product features from the QueueOS product line into its Poker Room Manager (PRM) family of products. Ameranth has expended considerable effort and resources in inventing, developing and marketing its inventions and protecting its rights therein.

12. Ameranth's pioneering inventions have been widely adopted throughout the gaming industry and are thus now essential to the efficient operations of modern casino and/or gaming enterprises of the 21st Century. Ameranth's solutions have been adopted throughout the hospitality/gaming industry, including by Genesis Gaming Solutions, Inc., ITCS, Hustler Casino, Hawaiian Gardens Casino and many others who have chosen to infringe rather than take a license to Ameranth's patented technology. In addition, a number of entities in the hospitality/gaming industry have taken licenses to the technology encompassed by the patent-in-suit.

The widespread adoption of Ameranth's technology by industry leaders and the wide acclaim received by Ameranth for its many technological innovations are just some of the many confirmations of the breakthrough aspects of Ameranth's

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inventions. Ameranth has received more than 10 major technology awards and has been widely recognized as an innovator.

RELATED CASES PREVIOUSLY FILED

13. The Ameranth patent asserted herein, U.S. Patent No. 7,878,909 (the "'909 patent"), is the second patent to issue in Ameranth's "Casino Poker and Dealer Management System" and "Products and Processes for Operations Management of Casino, Leisure and Hospitality Industry" patent family. Seventeen claims of the '909 patent were confirmed, without amendment, after two reexaminations over all alleged prior art identified by Requestors Genesis Gaming Solutions and IT Casino Solutions in Reexamination Control Nos. 90/011859 and 90/011,915.

14. Ameranth is also currently asserting the first of its patents to issue (U.S. Patent No. 7,431,650 (the "`650 patent") and the '909 patent in a separate litigation pending in this Court (*Ameranth v. Genesis et al.*, Case No. 8:11-CV-00189-AG (RNBX) against several parties, including Genesis Gaming Solutions, IT Casino Solutions, Commerce Casino and Hustler Casino. That litigation is currently stayed pending the outcome of two *ex parte* and one *inter partes* reexaminations. Both Genesis and ITCS filed *ex parte* reexaminations against the '909 patent and Genesis filed an *inter partes* reexamination against the `650 patent. The two *ex parte* reexaminations were merged by the reexamination Examiner. Both the *ex parte* and *inter partes* reexaminations led to a majority of the claims being confirmed patentable. A Notice of Intent to Issue Reexamination Certificate was entered by the Examiner in the merged '909 *ex parte* reexaminations on February 25, 2013. The Reexamination Certificate has now been issued, and thus the ex parte reexaminations have been concluded with a confirmation of the seventeen claims of the '909 patent determined patentable by the Examiner. Genesis has appealed the favorable ruling as to the twenty-seven confirmed claims of the `650 patent.

15. Ameranth is also currently asserting the third of its patents to issue (U.S. Patent No. 8,393,969 (the "`969 patent") in a separate litigation pending in this Court

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(*Ameranth v. Genesis et al.*, Case No. 8:13-CV-00720-AG (RNBX) against several parties, including Genesis Gaming Solutions, IT Casino Solutions, Commerce Casino, Hustler Casino, and present defendant Hawaiian Gardens.

CLAIM FOR RELIEF

Patent Infringement (U.S. Pat. No. 7,878,909)

(35 U.S.C. § 271)

16. Plaintiff reiterates and incorporates the allegations set forth in paragraphs 1-15 above as if fully set forth herein.

17. On February 1, 2011, United States Patent No. 7,878,909 entitled "Products and Processes for Operations Management of Casino, Leisure and Hospitality Industry" ("the '909 patent") (attached hereto as Exhibit A) was duly and legally issued by the United States Patent & Trademark Office ("PTO"). The '909 patent meets all patentability requirements of 35 U.S.C. §§101, 102, 103 and 112, including patent eligible subject matter, enablement, definiteness, novelty and nonobviousness, as evidenced by the PTO's thorough review of the disclosure and claims of the '909 patent and confirmance of seventeen claims in two reexaminations based on said review in light of all applicable law and PTO rules and guidelines respecting patentability under Title 35.

18. Plaintiff Ameranth is the lawful owner by assignment of all right, title and interest in and to the '909 patent.

19. IT Casino Solutions, LLC ("ITCS") is, on information and belief, a California limited liability corporation having a principal place of business at 7310 E. Paseo Tampico, Anaheim Hills, California 92808. On information and belief, Defendant ITCS makes, uses, sells and/or offers for sale gaming information technology products, software, components and/or systems within this Judicial District including products, software, components and/or systems including casino poker gaming monitoring/management, waitlisting, player tracking, player

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management, marquee/public display, compensation accrual and management and internet solutions.

20. On information and belief, IT Casino Solutions has sold, licensed or otherwise provided to Defendant Hawaiian Gardens infringing gaming and/or casino information technology systems, products, software and/or services including but not limited to systems, products, software and/or services including monitoring/management of casinos and casino games and casino dealer coordination functions, marquee/public display, player tracking and internet functions under the IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames in the U.S. without authority or license from Ameranth.

21. On information and belief, Defendant Hawaiian Gardens has infringed the '909 patent in violation of 35 U.S.C. § 271(a) by making and/or using infringing gaming and/or casino information technology systems including but not limited to systems, products, software and/or services including monitoring/management of casinos and casino games and casino dealer coordination functions, player tracking, marquee/public display and internet functions including such systems, products, software and/or services under the Hawaiian Gardens, IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames, or other trademarks or tradenames, either itself or in concert with ITCS in the U.S. without authority or license from Ameranth.

22. On information and belief, Defendant Hawaiian Gardens has actively induced others to infringe the '909 patent in violation of 35 U.S.C. §271(b) by actively, knowingly and intentionally encouraging, aiding and abetting gaming and/or casino users (including, *inter alia*, casino patrons/customers) to use infringing systems, products, software and/or services including but not limited to systems, products, software and/or services including monitoring/management of casinos and casino games and casino dealer coordination functions, player tracking, marquee/public display and internet functions including such systems, products,

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software and/or services under the Hawaiian Gardens, IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames, or other trademarks or tradenames either itself or in concert with ITCS in the U.S. without authority or license from Ameranth. Hawaiian Gardens provides instruction and direction regarding the use of the aforesaid infringing systems, products, methods and/or services and advertises, publicizes, promotes and encourages the use of the infringing systems, products and/or services by others. Hawaiian Gardens patrons/customers directly infringe claims of the '909 patent by making or using the aforesaid ITCS systems, products, software and/or services in gaming and/or casino information technology systems including but not limited to systems, products, software and/or services including monitoring/management of casinos and casino games and casino dealer coordination functions, player tracking, marquee/public display and internet functions including such systems, products, software and/or services under the Hawaiian Gardens, IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames, or other trademarks or tradenames in the U.S. without authority or license from Ameranth.

23. Hawaiian Gardens has been aware of the '909 patent since at least as early as January 2012, based on notification of the '909 patent given to Hawaiian Gardens by Ameranth. Hawaiian Gardens thus had the level of knowledge required under 35 U.S.C. § 271(b).

24. On information and belief, Defendant Hawaiian Gardens has contributorily infringed the '909 patent in violation of 35 U.S.C. §271(c) by providing components (under at least the ITCS related trademarks and/or tradenames discussed above) of systems on which claims of the '909 patent read, constituting a material part of the invention, knowing that the components were especially adapted for use in systems which infringe claims of the '909 patent, to gaming and/or casino users (including, *inter alia*, casino patrons/customers) for use in infringing systems, products, software and/or services including but not limited to systems, products, software and/or services including monitoring/management of casinos and casino

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games, player tracking, marquee/public display and internet functions including such systems, products, software and/or services under the Hawaiian Gardens, IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames, or other trademarks or tradenames, either itself or in concert with ITCS without authority or license from Ameranth.

25. Defendant Hawaiian Gardens had knowledge of the '909 patent well prior to the filing date of this lawsuit as discussed above. Hawaiian Gardens thus had the level of knowledge required under 35 U.S.C. § 271(c).

26. The aforesaid infringing activities of Defendant have been done with knowledge and willful disregard of Ameranth's patent rights, constituting objectively reckless behavior, making this an exceptional case within the meaning of 35 U.S.C. § 285. As discussed above, Defendant had knowledge of the '909 patent and Ameranth's allegations of infringement of said patent since at least January 2012.

27. The aforesaid infringing activity of Defendant directly and proximately causes damage to plaintiff Ameranth, including loss of profits from sales and licensing revenues they would have made but for the infringements. Unless enjoined, the aforesaid infringing activity will continue and cause irreparable injury to plaintiff for which there is no adequate remedy at law.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff respectfully prays for judgment and an order against Defendants:

A. Adjudging that the use by Defendant Hawaiian Gardens and/or its customers of ITCS's systems, products, services and/or software including those under the Hawaiian Gardens, IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames, or other trademark or tradename, infringes the '909 patent;

B. Adjudging that the making and/or use of Hawaiian Garden's gaming and/or casino monitoring/management, dealer coordination, player tracking,

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marquee/public display and internet systems, products, services and/or software infringes the '909 patent;

C. Adjudging that Defendant Hawaiian Gardens has infringed, actively induced others to infringe and/or contributorily infringed the '909 patent;

D. Adjudging that infringement of the '909 patent by Defendant has been willful;

E. Enjoining Defendant, its officers, directors, employees, attorneys, agents, representatives, parents, subsidiaries, affiliates and all other persons acting in concert, participation or privity with them, and their successors and assigns, from infringing, contributorily infringing and/or inducing others to infringe the '909 patent;

F. Awarding Ameranth the damages it has sustained by reason of Defendant's infringement, together with interest and costs pursuant to 35 U.S.C. § 284;

G. Awarding Ameranth increased damages of three times the amount found or assessed by reason of the willful and deliberate nature of Defendant's acts of infringement pursuant to 35 U.S.C. § 284;

H. Adjudging this to be an exceptional case and awarding Ameranth its attorney fees pursuant to 35 U.S.C. §285; and

I. Awarding to Ameranth such other and further relief that this Court may deem just and proper.

[signatures on following page]

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Dated: May 22, 2013

Respectfully submitted,

LOCKE LORD LLP

By: _____
Brandon J. Witkow

OSBORNE LAW LLC
John W. Osborne

WATTS LAW OFFICES
Ethan M. Watts

Attorneys for *Plaintiff* AMERANTH, INC.

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DEMAND FOR JURY TRIAL

Plaintiff Ameranth, Inc. hereby demands a trial by jury on all issues so triable, pursuant to Rule 38 of the Federal Rules of Civil Procedure.

Dated: May 22, 2013

Respectfully submitted,

LOCKE LORD LLP

By: _____
Brandon J. Witkow

OSBORNE LAW LLC
John W. Osborne

WATTS LAW OFFICES
Ethan M. Watts

Attorneys for *Plaintiff* AMERANTH, INC.

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EXHIBIT "A"

US007878909B2

(12) **United States Patent**
Kessman et al.

(10) **Patent No.: US 7,878,909 B2**
(45) **Date of Patent: Feb. 1, 2011**

(54) **PRODUCTS AND PROCESSES FOR OPERATIONS MANAGEMENT OF CASINO, LEISURE AND HOSPITALITY INDUSTRY**

(75) Inventors: **Mark D. Kessman**, Pound Ridge, NY (US); **Sean P. McCauley**, Danbury, CT (US)

(73) Assignee: **Ameranth, Inc.**, San Diego, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 484 days.

(21) Appl. No.: **12/043,829**

(22) Filed: **Mar. 6, 2008**

(65) **Prior Publication Data**

US 2008/0281666 A1 Nov. 13, 2008

Related U.S. Application Data

(62) Division of application No. 10/452,231, filed on May 30, 2003, now Pat. No. 7,431,650.

(60) Provisional application No. 60/384,565, filed on May 30, 2002, provisional application No. 60/429,383, filed on Nov. 25, 2002.

(51) **Int. Cl.**
G06F 19/00 (2006.01)

(52) **U.S. Cl.** 463/42; 463/16

(58) **Field of Classification Search** 463/25–42, 463/17–20; 705/14.12, 14.41, 30; 703/1; 701/300; 726/5; 273/236
See application file for complete search history.

(56) **References Cited**

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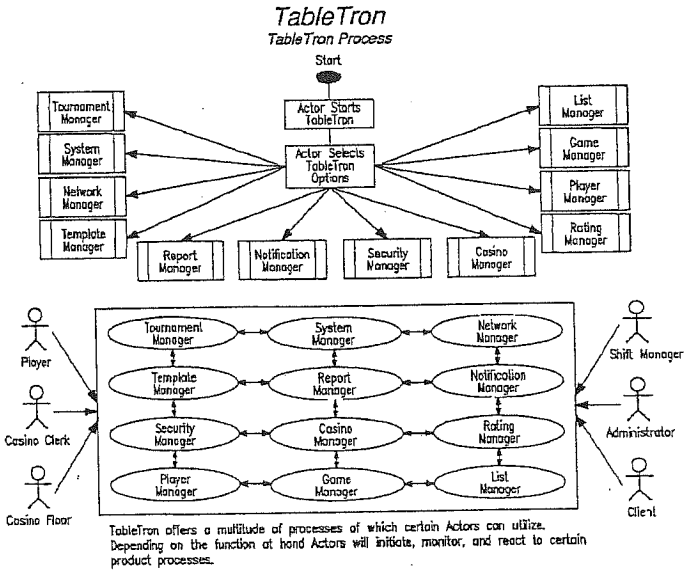
* cited by examiner

Primary Examiner—Peter DungBa Vo
Assistant Examiner—Masud Ahmed
(74) *Attorney, Agent, or Firm*—Locke Lord Bissell & Liddell LLP

(57) **ABSTRACT**

In various embodiments of this invention, a suite of customized computer software applications, a linked or wireless computer network and accessory components cooperate to enhance and extend customer and employee resource management in the casino/gaming environment.

26 Claims, 95 Drawing Sheets



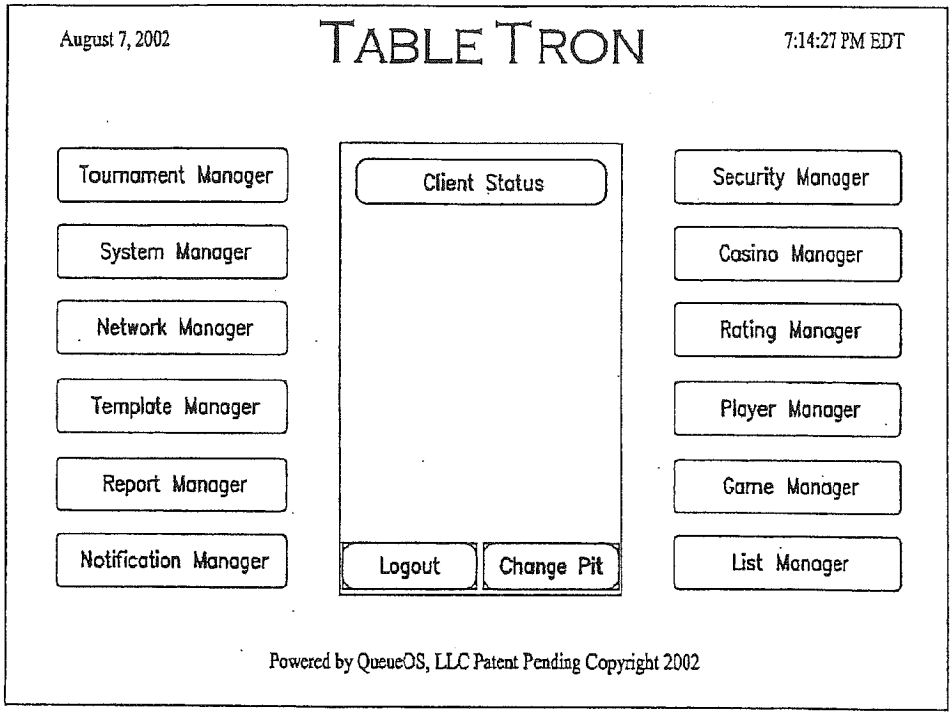
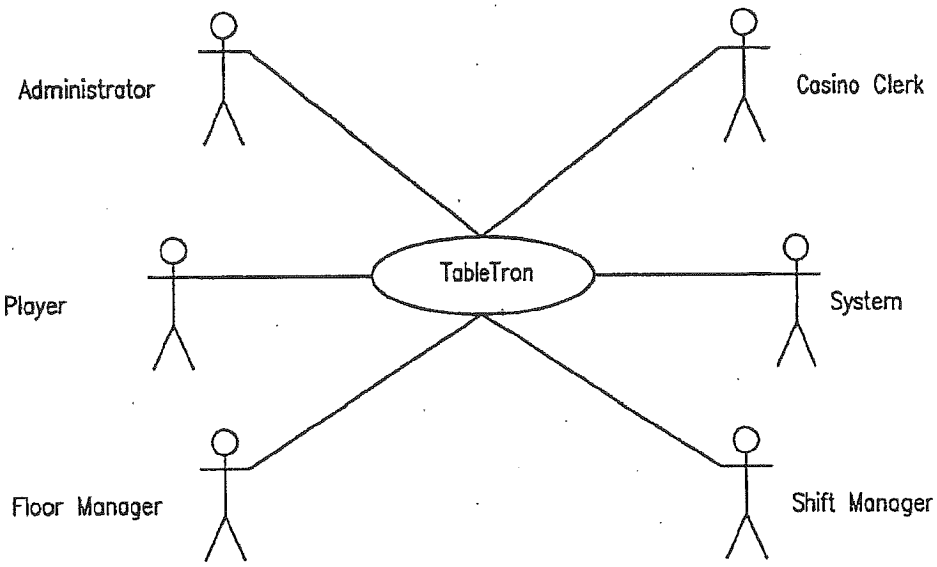

August 7, 2002
TABLE TRON
7:14:27 PM EDT
Tournament Manager
System Manager
Network Manager
Template Manager
Report Manager
Notification Manager
Client Status
Logout
Change Pit
Security Manager
Casino Manager
Rating Manager
Player Manager
Game Manager
List Manager
Powered by QueueOS, LLC Patent Pending Copyright 2002

FIG. 1



TableTron offers electronic data efficiency within game, seat, rating, player, report, and system management incorporating a client–server based real–time application. TableTron is fully capable of managing the gateway (front–end) processes of casino venues by using intelligent an application model.

FIG. 2

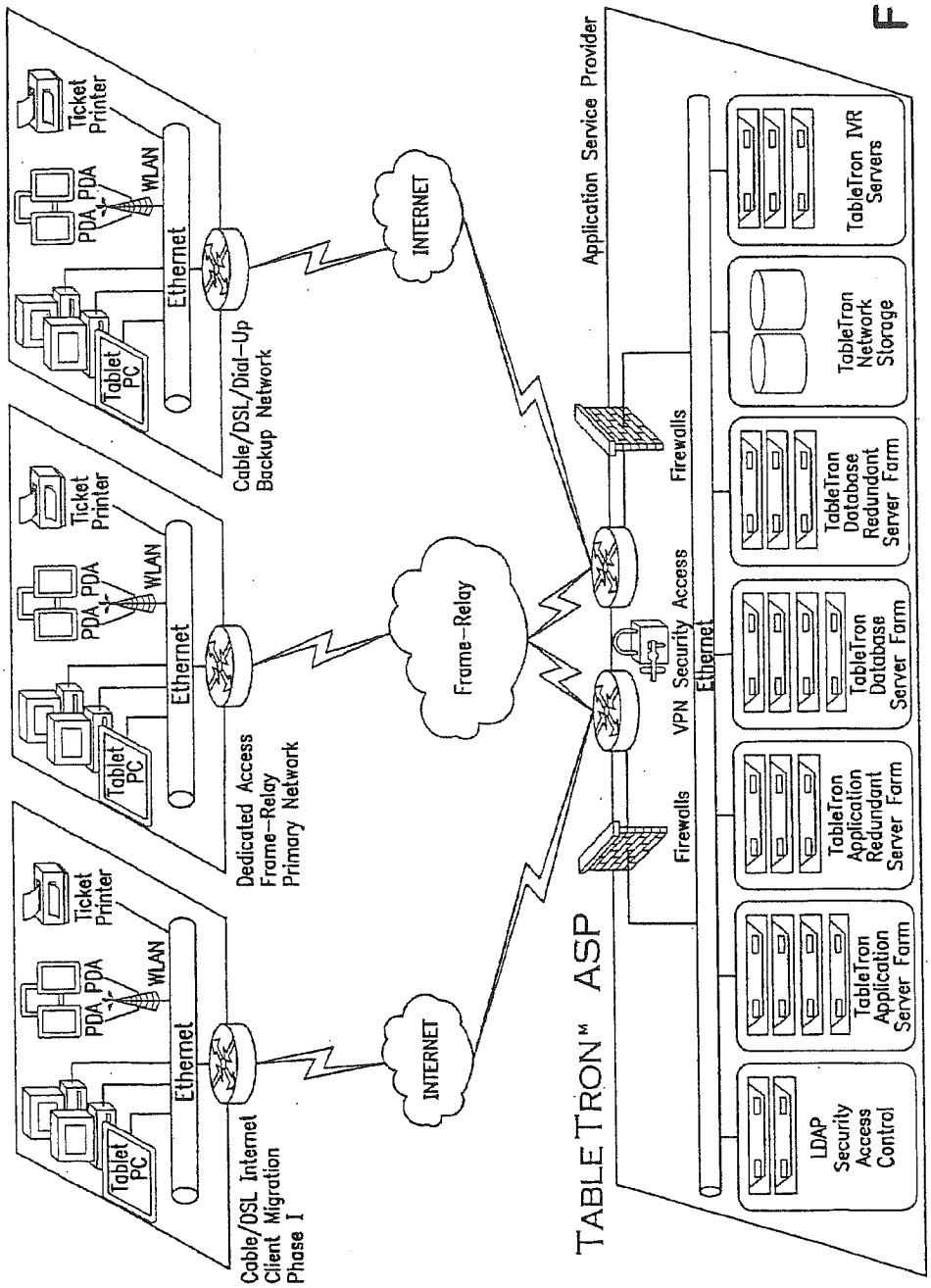

Cable/DSL Internet
Client Migration
Phase 1
Tablet PC
Ethernet
PDA PDA
WLAN
Ticket Printer
Dedicated Access
Frame-Relay
Primary Network
Cable/DSL/Dial-Up
Backup Network
INTERNET
Frame-Relay
INTERNET
TABLETRON™ ASP
Application Service Provider
Firewalls
VPN Security Access
Ethernet
LDAP
Security
Access
Control
TableTron
Application
Server Farm
TableTron
Application
Redundant
Server Farm
TableTron
Database
Server Farm
TableTron
Database
Redundant
Server Farm
TableTron
Network
Storage
TableTron IVR
Servers

FIG. 3

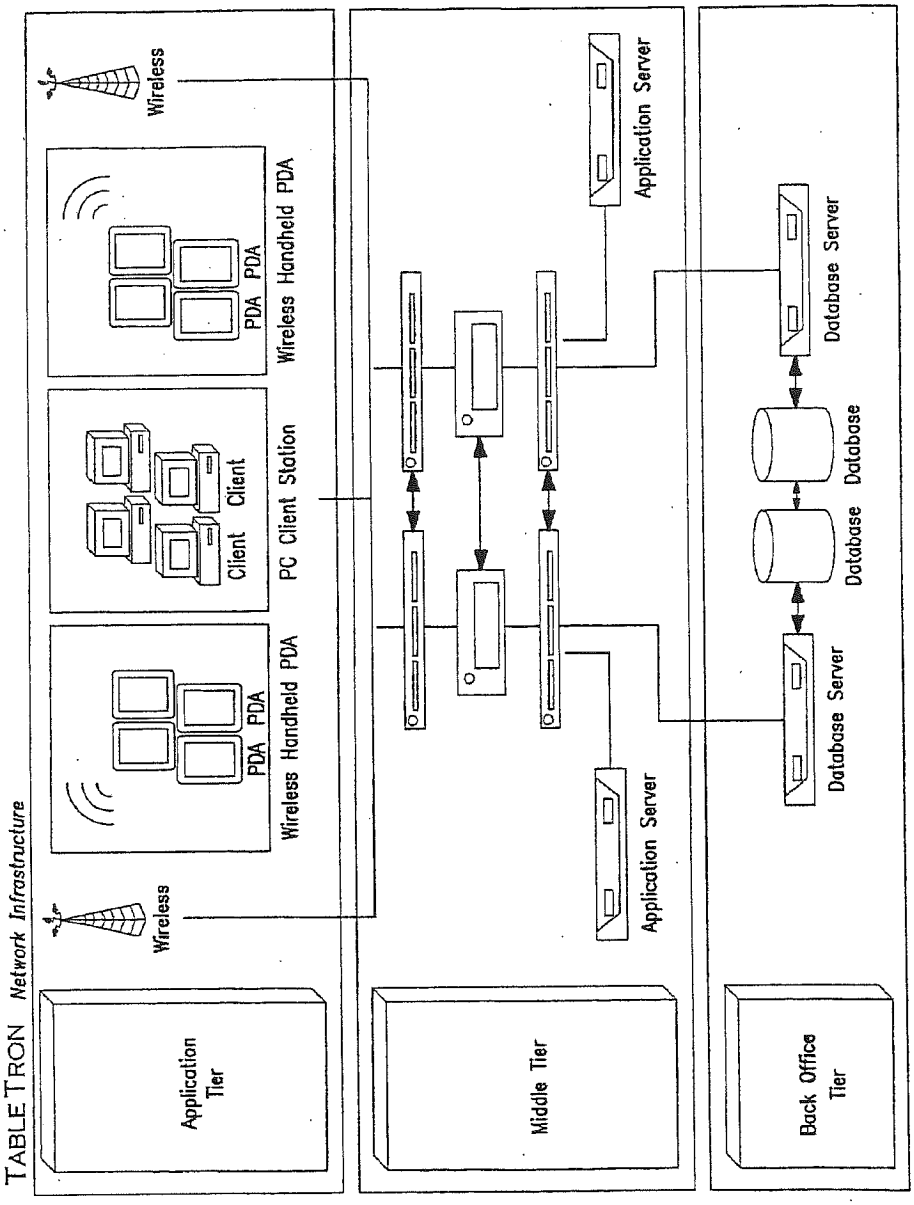


TABLE TRON Network Infrastructure
Application Tier
Middle Tier
Back Office Tier
Wireless
Wireless
Wireless Handheld PDA
PDA PDA
PC Client Station
Client Client
Client
Wireless Handheld PDA
PDA PDA
Application Server
Application Server
Database Server
Database Server
Database
Database

FIG. 4

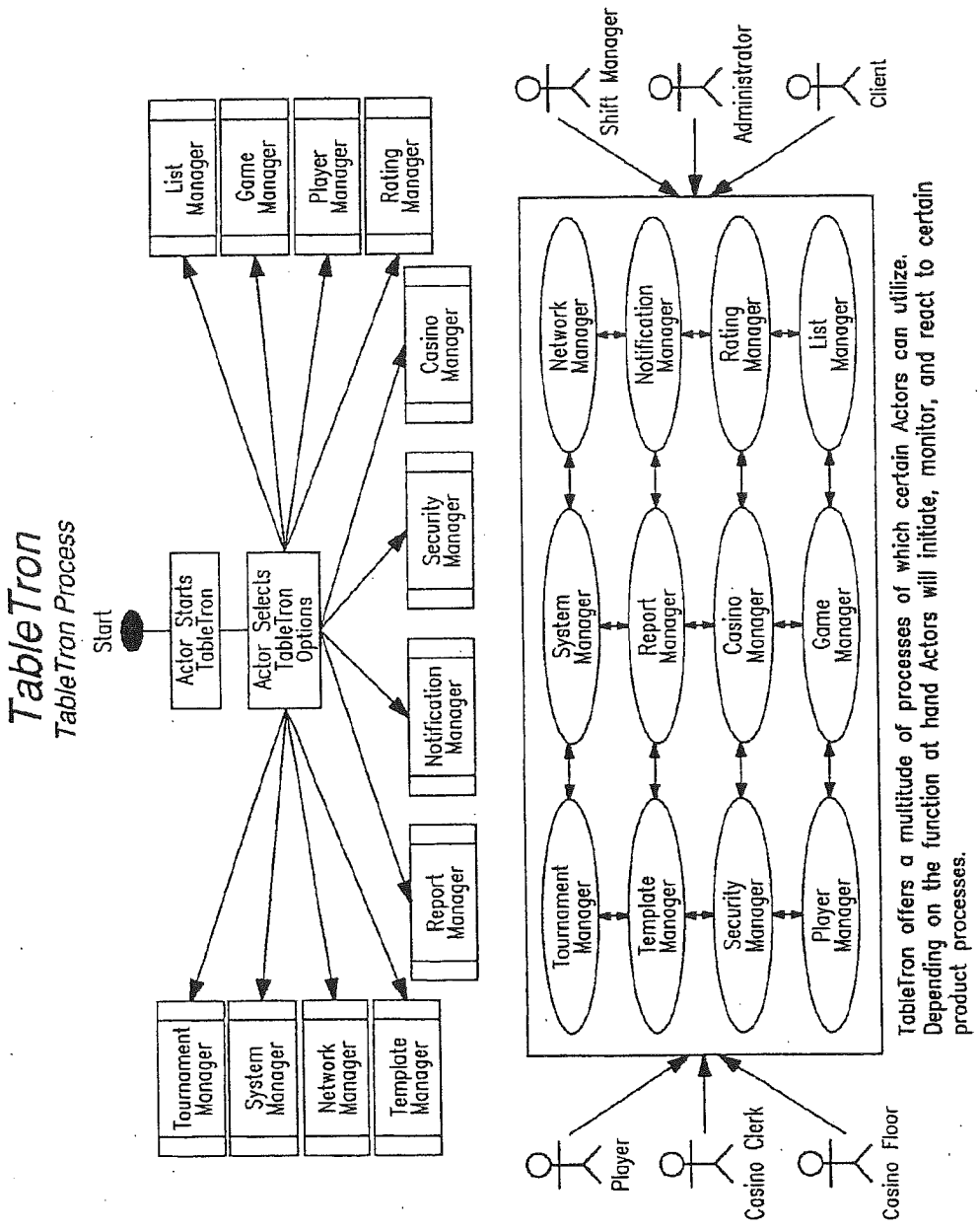

TableTron
TableTron Process
Start
Actor Starts TableTron
Actor Selects TableTron Options
List Manager
Game Manager
Player Manager
Rating Manager
Casino Manager
Security Manager
Notification Manager
Report Manager
Tournament Manager
System Manager
Network Manager
Template Manager
Shift Manager
Administrator
Client
Player
Casino Clerk
Casino Floor
TableTron offers a multitude of processes of which certain Actors can utilize. Depending on the function at hand Actors will initiate, monitor, and react to certain product processes.

FIG. 5

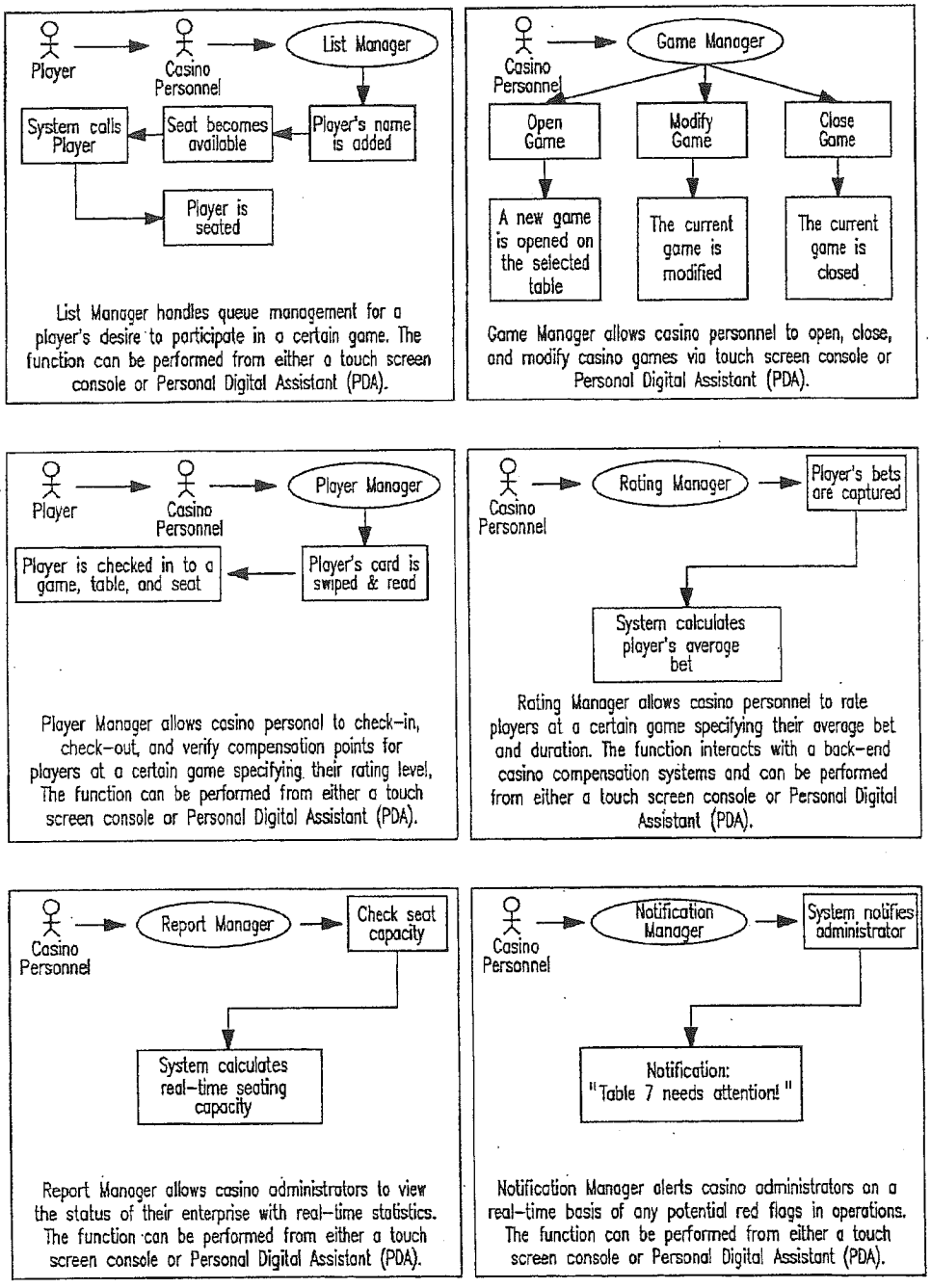

Player
Casino Personnel
List Manager
System calls Player
Seat becomes available
Player's name is added
Player is seated
List Manager handles queue management for a player's desire to participate in a certain game. The function can be performed from either a touch screen console or Personal Digital Assistant (PDA).
Casino Personnel
Game Manager
Open Game
Modify Game
Close Game
A new game is opened on the selected table
The current game is modified
The current game is closed
Game Manager allows casino personnel to open, close, and modify casino games via touch screen console or Personal Digital Assistant (PDA).
Player
Casino Personnel
Player Manager
Player is checked in to a game, table, and seat
Player's card is swiped & read
Player Manager allows casino personal to check-in, check-out, and verify compensation points for players at a certain game specifying their rating level. The function can be performed from either a touch screen console or Personal Digital Assistant (PDA).
Casino Personnel
Rating Manager
Player's bets are captured
System calculates player's average bet
Rating Manager allows casino personnel to rate players at a certain game specifying their average bet and duration. The function interacts with a back-end casino compensation systems and can be performed from either a touch screen console or Personal Digital Assistant (PDA).
Casino Personnel
Report Manager
Check seat capacity
System calculates real-time seating capacity
Report Manager allows casino administrators to view the status of their enterprise with real-time statistics. The function can be performed from either a touch screen console or Personal Digital Assistant (PDA).
Casino Personnel
Notification Manager
System notifies administrator
Notification: "Table 7 needs attention!"
Notification Manager alerts casino administrators on a real-time basis of any potential red flags in operations. The function can be performed from either a touch screen console or Personal Digital Assistant (PDA).

FIG. 6

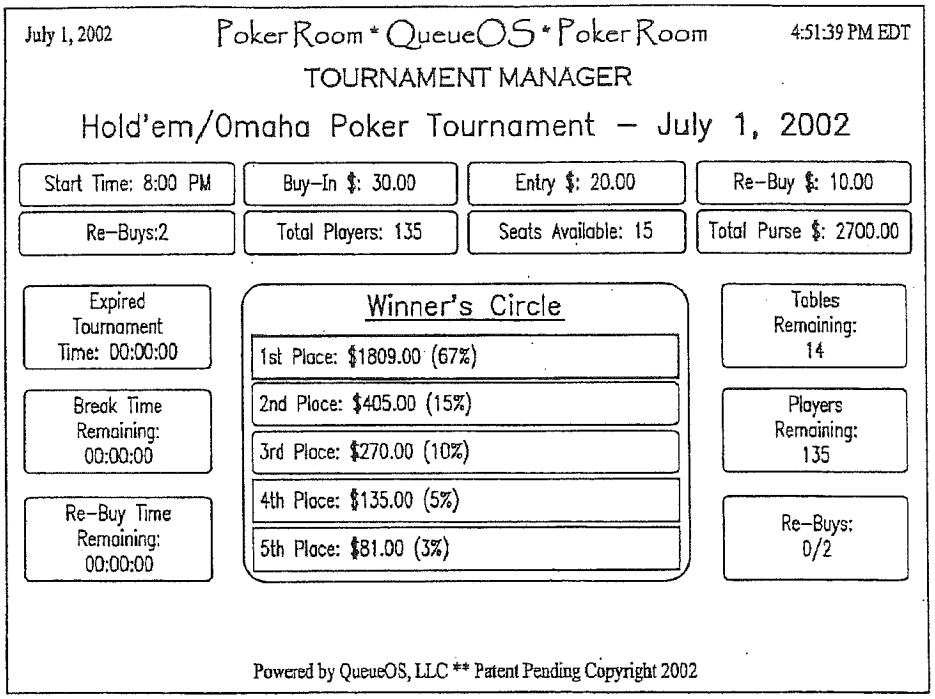

July 1, 2002
Poker Room * QueueOS * Poker Room
4:51:39 PM EDT
TOURNAMENT MANAGER
Hold'em/Omaha Poker Tournament – July 1, 2002
Start Time: 8:00 PM
Buy-In $: 30.00
Entry $: 20.00
Re-Buy $: 10.00
Re-Buys:2
Total Players: 135
Seats Available: 15
Total Purse $: 2700.00
Expired Tournament Time: 00:00:00
Break Time Remaining: 00:00:00
Re-Buy Time Remaining: 00:00:00
Winner's Circle
1st Place: $1809.00 (67%)
2nd Place: $405.00 (15%)
3rd Place: $270.00 (10%)
4th Place: $135.00 (5%)
5th Place: $81.00 (3%)
Tables Remaining: 14
Players Remaining: 135
Re-Buys: 0/2
Powered by QueueOS, LLC ** Patent Pending Copyright 2002

FIG. 7

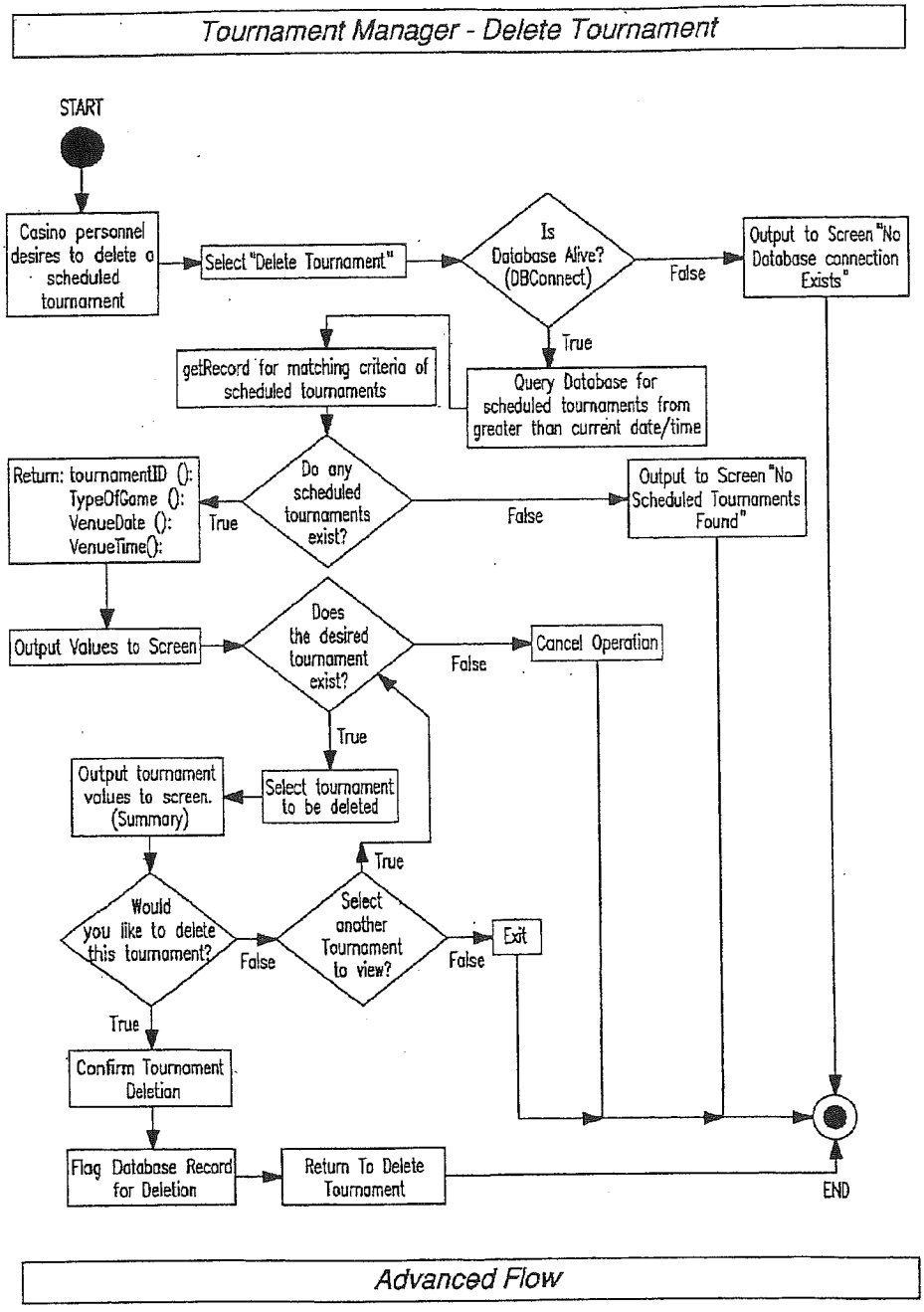

Tournament Manager - Delete Tournament
START
Casino personnel desires to delete a scheduled tournament
Select "Delete Tournament"
Is Database Alive? (DBConnect)
False
Output to Screen "No Database connection Exists"
True
getRecord for matching criteria of scheduled tournaments
Query Database for scheduled tournaments from greater than current date/time
Return: tournamentID (): TypeOfGame (): VenueDate (): VenueTime():
Do any scheduled tournaments exist?
True
False
Output to Screen "No Scheduled Tournaments Found"
Output Values to Screen
Does the desired tournament exist?
False
Cancel Operation
True
Output tournament values to screen. (Summary)
Select tournament to be deleted
True
Would you like to delete this tournament?
False
Select another Tournament to view?
False
Exit
True
Confirm Tournament Deletion
Flag Database Record for Deletion
Return To Delete Tournament
END
Advanced Flow

FIG. 8

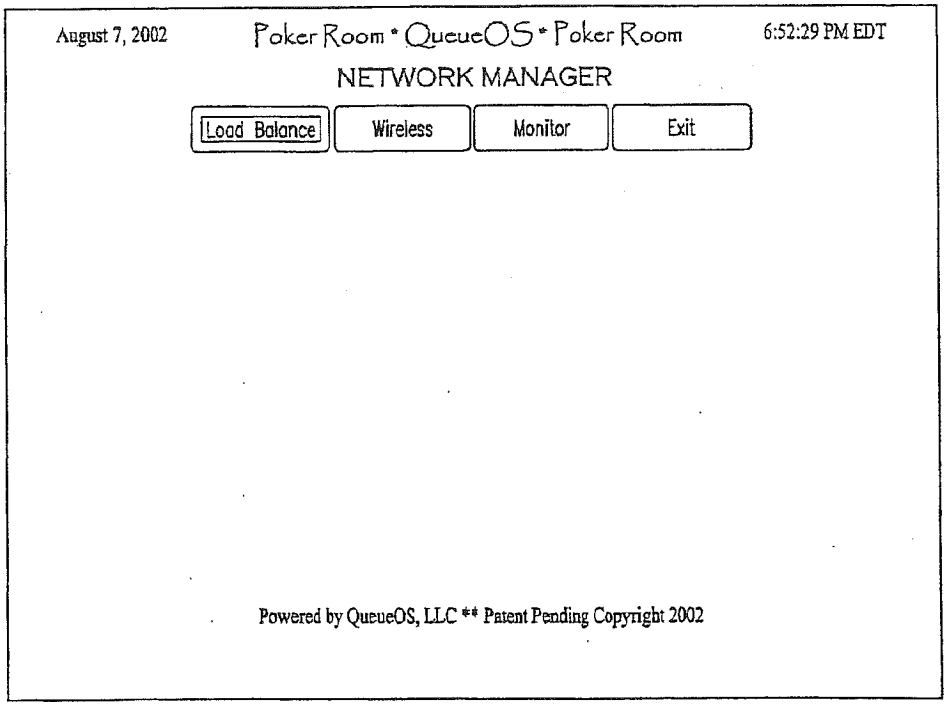

August 7, 2002
Poker Room * QueueOS * Poker Room
6:52:29 PM EDT
NETWORK MANAGER
Load Balance
Wireless
Monitor
Exit
Powered by QueueOS, LLC ** Patent Pending Copyright 2002

FIG. 9

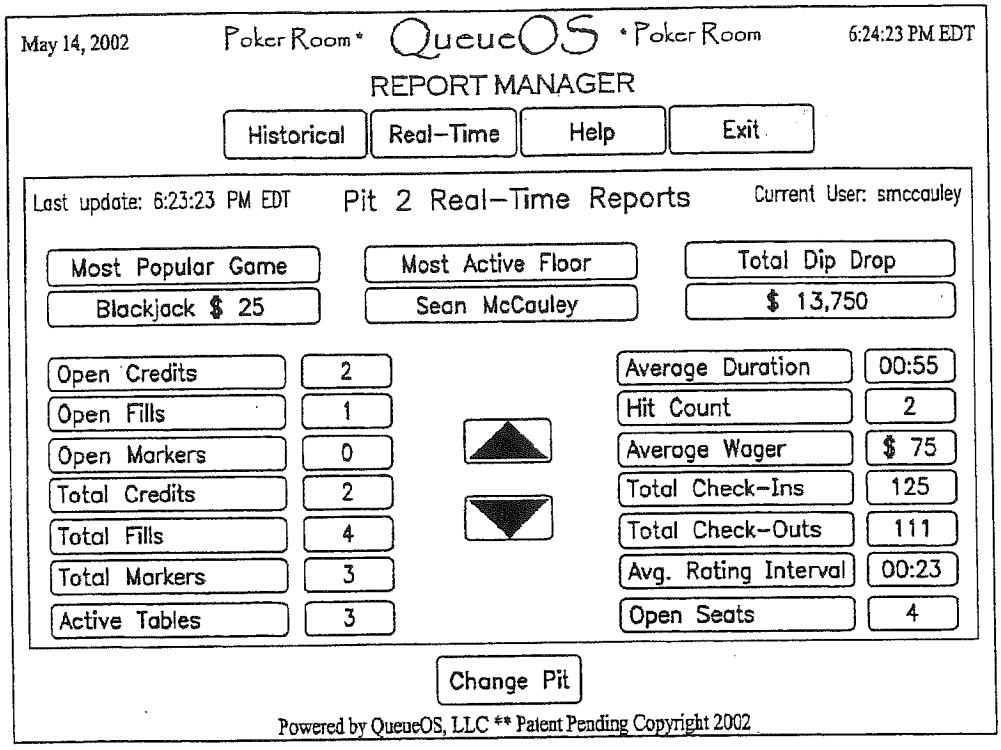

May 14, 2002
Poker Room * QueueOS * Poker Room
6:24:23 PM EDT
REPORT MANAGER
Historical
Real-Time
Help
Exit
Last update: 6:23:23 PM EDT
Pit 2 Real-Time Reports
Current User: smccauley
Most Popular Game
Blackjack $ 25
Most Active Floor
Sean McCauley
Total Dip Drop
$ 13,750
Open Credits 2
Open Fills 1
Open Markers 0
Total Credits 2
Total Fills 4
Total Markers 3
Active Tables 3
Average Duration 00:55
Hit Count 2
Average Wager $ 75
Total Check-Ins 125
Total Check-Outs 111
Avg. Rating Interval 00:23
Open Seats 4
Change Pit
Powered by QueueOS, LLC ** Patent Pending Copyright 2002

FIG. 10

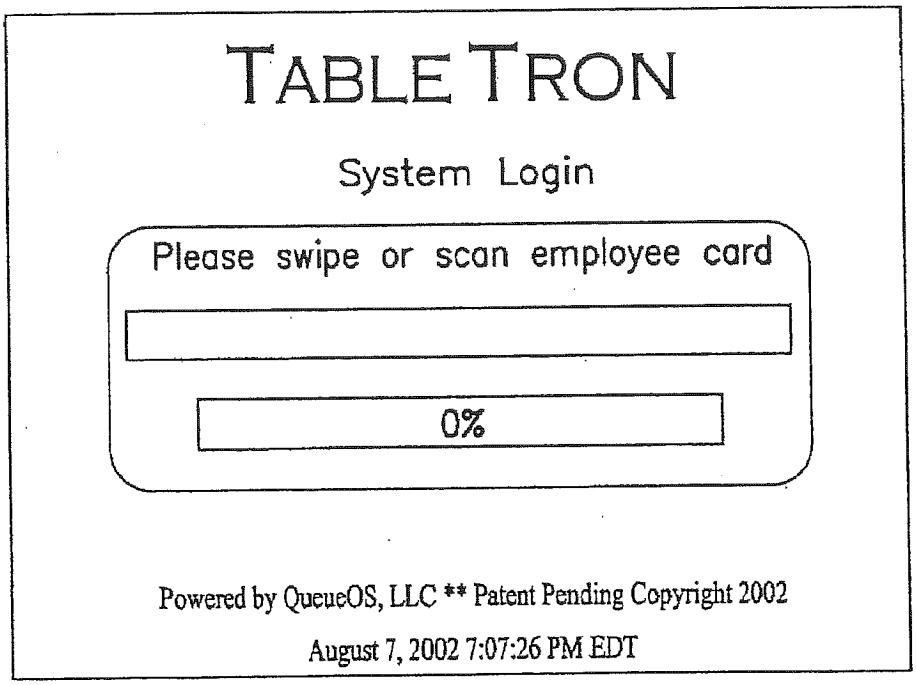


TABLE TRON
System Login
Please swipe or scan employee card
0%
Powered by QueueOS, LLC ** Patent Pending Copyright 2002
August 7, 2002 7:07:26 PM EDT

FIG. 11

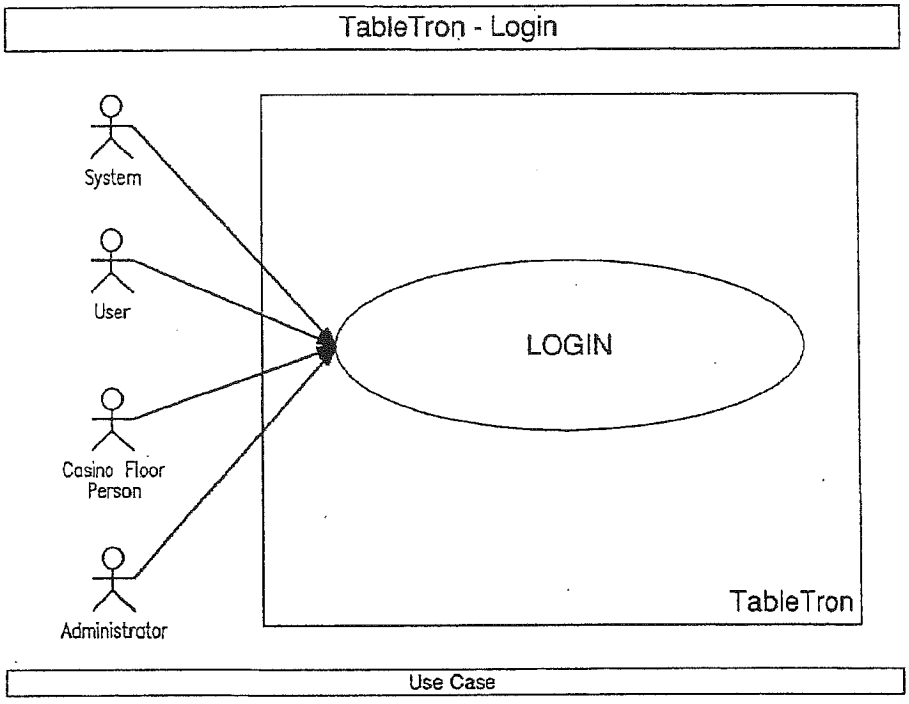

TableTron - Login
System
User
Casino Floor Person
Administrator
LOGIN
TableTron
Use Case

FIG. 12

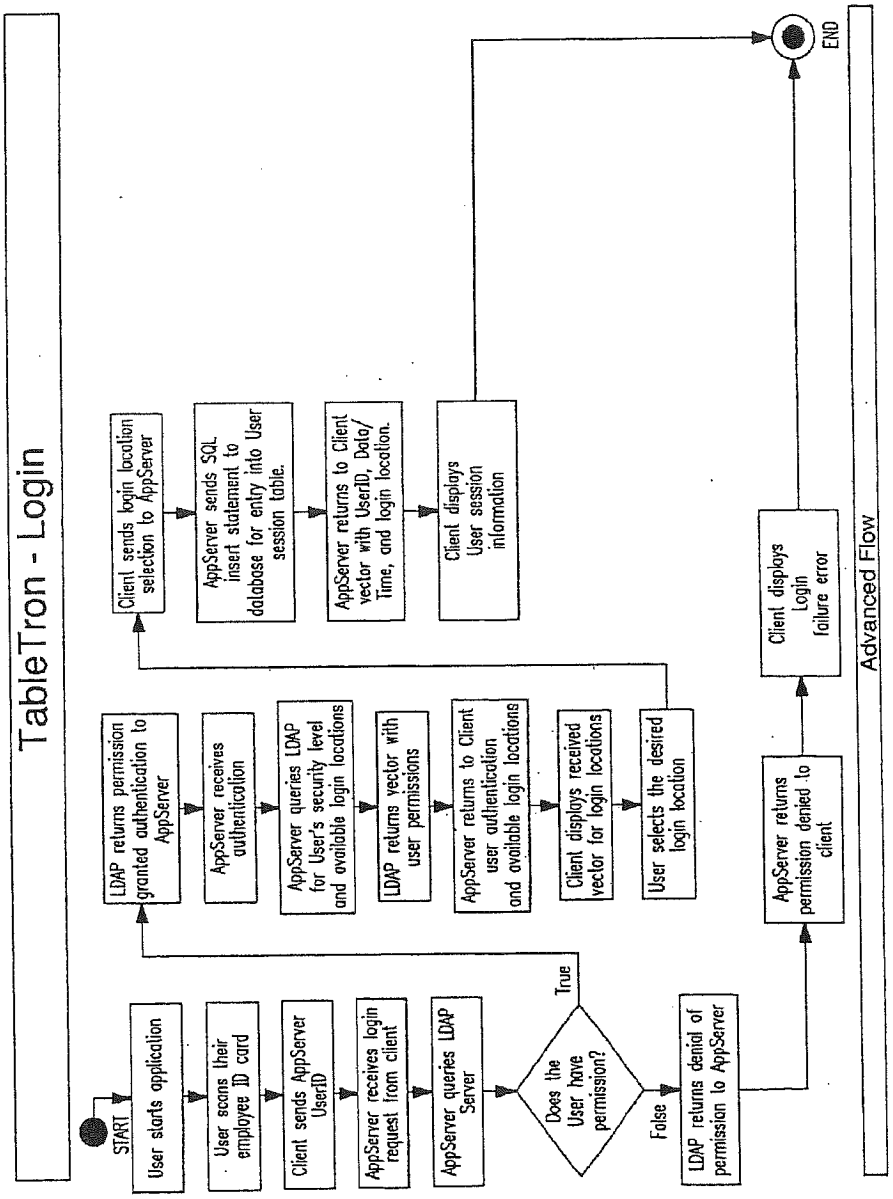
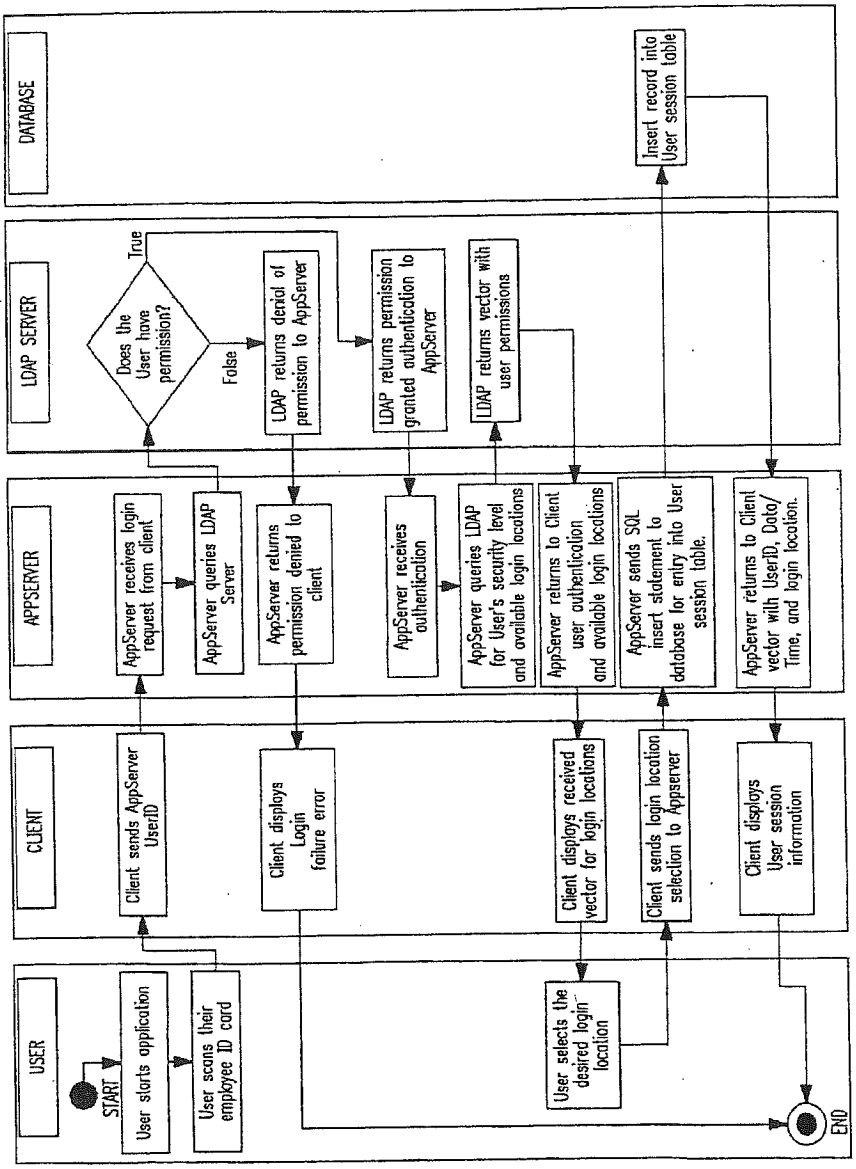

TableTron - Login
START
User starts application
User scans their employee ID card
Client sends AppServer UserID
AppServer receives login request from client
AppServer queries LDAP Server
Does the User have permission?
True
False
LDAP returns permission granted authentication to AppServer
AppServer receives authentication
AppServer queries LDAP for User's security level and available login locations
LDAP returns vector with user permissions
AppServer returns to Client user authentication and available login locations
Client displays received vector for login locations
User selects the desired login location
Client sends login location selection to AppServer
AppServer sends SQL insert statement to database for entry into User session table.
AppServer returns to Client vector with UserID, Date/Time, and login location.
Client displays User session information
LDAP returns denial of permission to AppServer
AppServer returns permission denied to client
Client displays Login failure error
END
Advanced Flow

FIG. 13

FIG. 14


DATABASE
Insert record into User session table
LDAP SERVER
Does the User have permission?
True
False
LDAP returns denial of permission to AppServer
LDAP returns permission granted authentication to AppServer
LDAP returns vector with user permissions
APPSERVER
AppServer receives login request from client
AppServer queries LDAP Server
AppServer returns permission denied to client
AppServer receives authentication
AppServer queries LDAP for User's security level and available login locations
AppServer returns to Client user authentication and available login locations
AppServer sends SQL insert statement to database for entry into User session table.
AppServer returns to Client vector with UserID, Data/Time, and login location.
CLIENT
Client sends AppServer UserID
Client displays Login failure error
Client displays received vector for login locations
Client sends login location selection to Appserver
Client displays User session information
USER
START
User starts application
User scans their employee ID card
User selects the desired login location
END

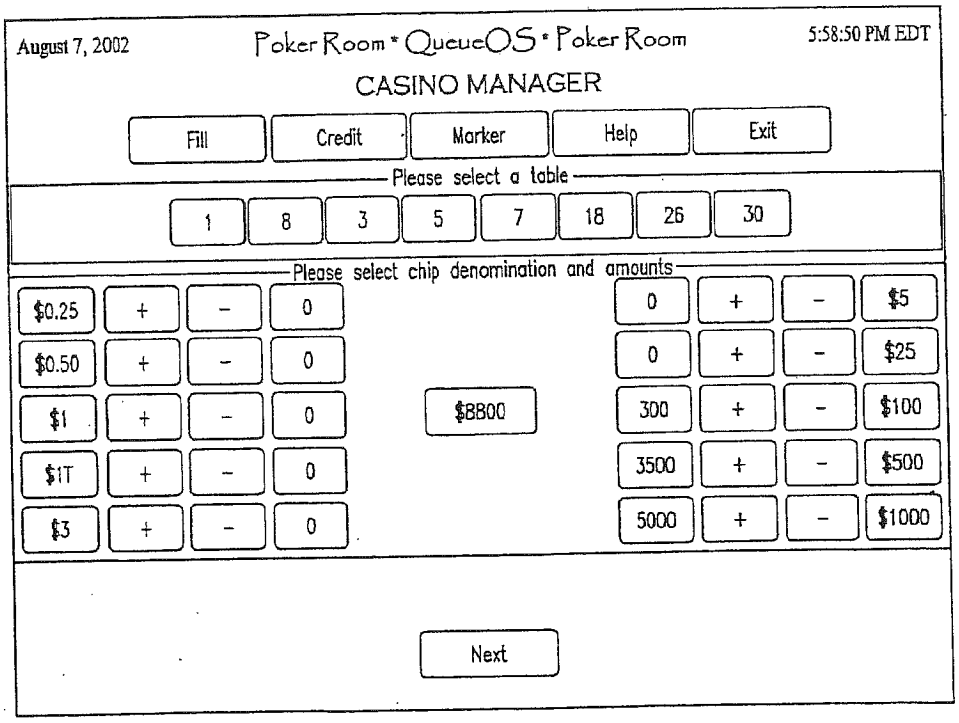

August 7, 2002
Poker Room * QueueOS * Poker Room
5:58:50 PM EDT
CASINO MANAGER
Fill
Credit
Marker
Help
Exit
Please select a table
1
8
3
5
7
18
26
30
Please select chip denomination and amounts
$0.25
$0.50
$1
$1T
$3
+
-
0
$BB00
$5
$25
$100
$500
$1000
300
3500
5000
Next

FIG. 15

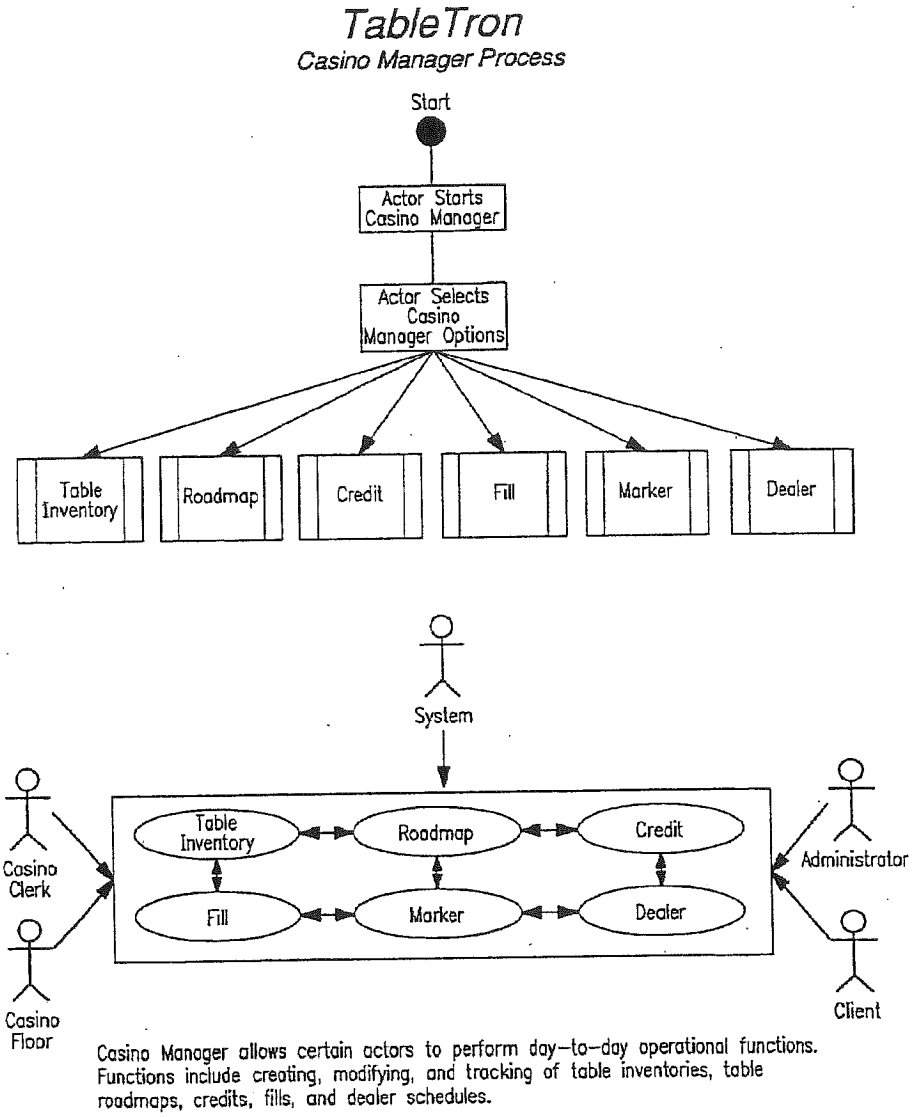

TableTron
Casino Manager Process
Start
Actor Starts Casino Manager
Actor Selects Casino Manager Options
Table Inventory
Roadmap
Credit
Fill
Marker
Dealer
System
Casino Clerk
Casino Floor
Table Inventory
Roadmap
Credit
Fill
Marker
Dealer
Administrator
Client
Casino Manager allows certain actors to perform day-to-day operational functions. Functions include creating, modifying, and tracking of table inventories, table roadmaps, credits, fills, and dealer schedules.

FIG. 16

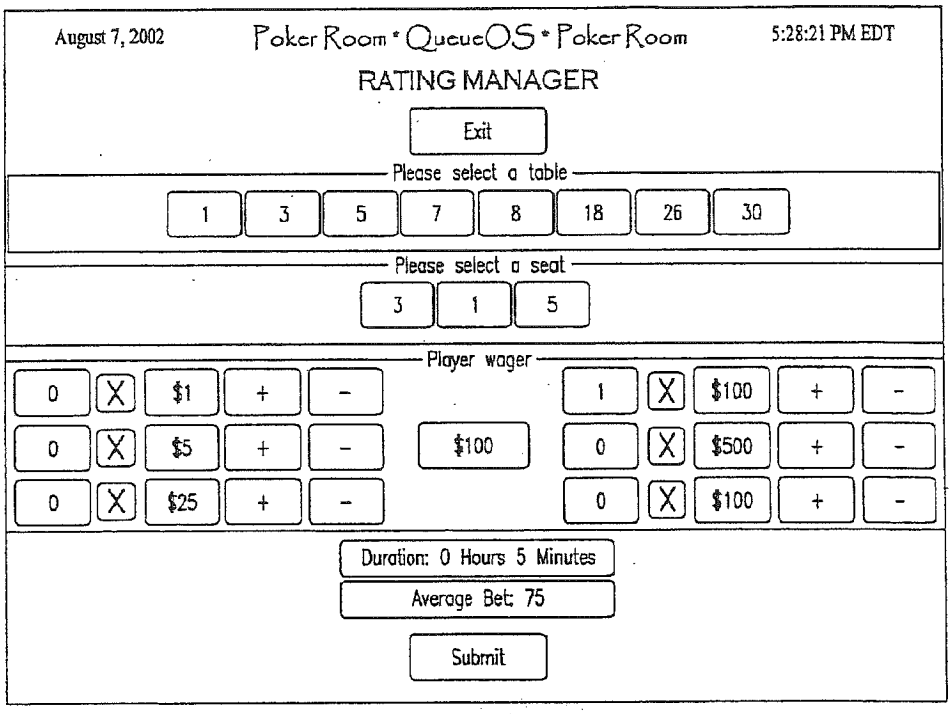

August 7, 2002
Poker Room * QueueOS * Poker Room
5:28:21 PM EDT
RATING MANAGER
Exit
Please select a table
1
3
5
7
8
18
26
30
Please select a seat
3
1
5
Player wager
0
X
$1
+
-
0
X
$5
+
-
0
X
$25
+
-
$100
1
X
$100
+
-
0
X
$500
+
-
0
X
$100
+
-
Duration: 0 Hours 5 Minutes
Average Bet: 75
Submit

FIG. 17

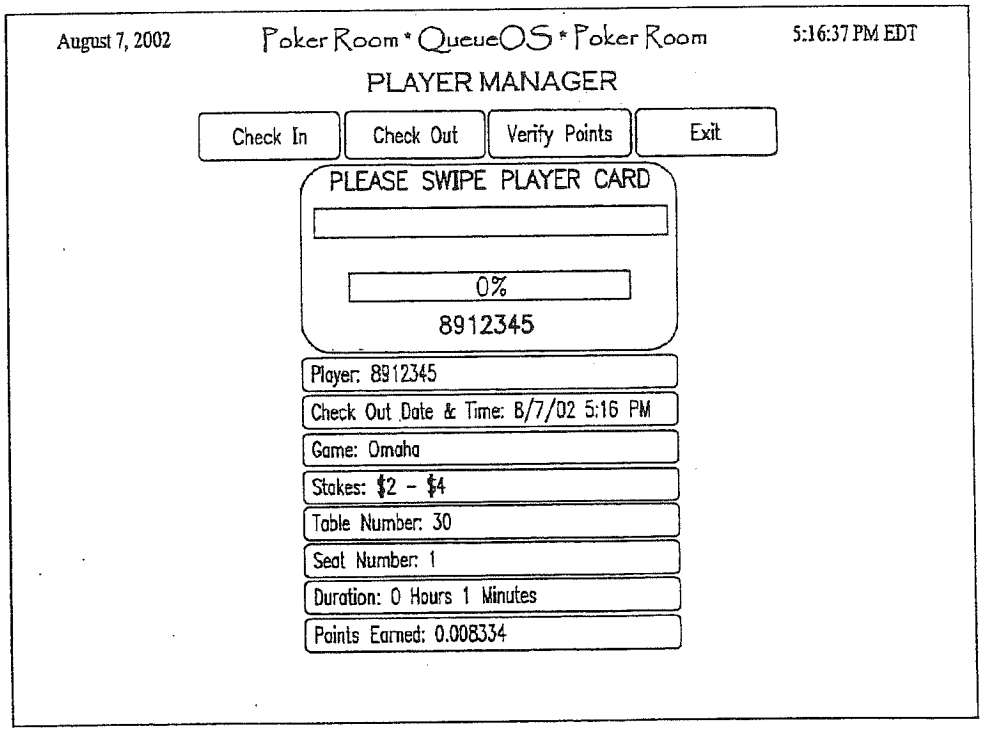

August 7, 2002
Poker Room * QueueOS * Poker Room
5:16:37 PM EDT
PLAYER MANAGER
Check In
Check Out
Verify Points
Exit
PLEASE SWIPE PLAYER CARD
0%
8912345
Player: 8912345
Check Out Date & Time: 8/7/02 5:16 PM
Game: Omaha
Stakes: $2 - $4
Table Number: 30
Seat Number: 1
Duration: 0 Hours 1 Minutes
Points Earned: 0.008334

FIG. 18

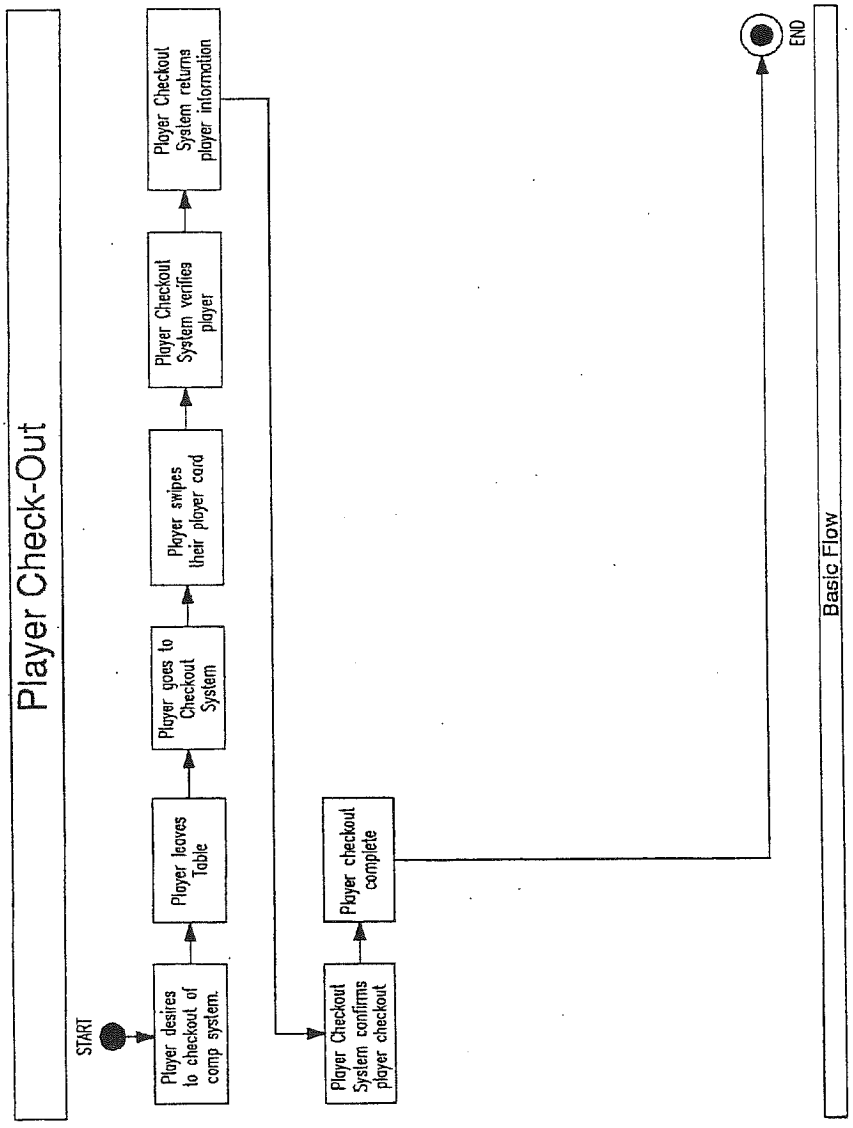

Player Check-Out
START
Player desires to checkout of comp system.
Player leaves Table
Player goes to Checkout System
Player swipes their player card
Player Checkout System verifies player
Player Checkout System returns player information
Player Checkout System confirms player checkout
Player checkout complete
END
Basic Flow

FIG. 19

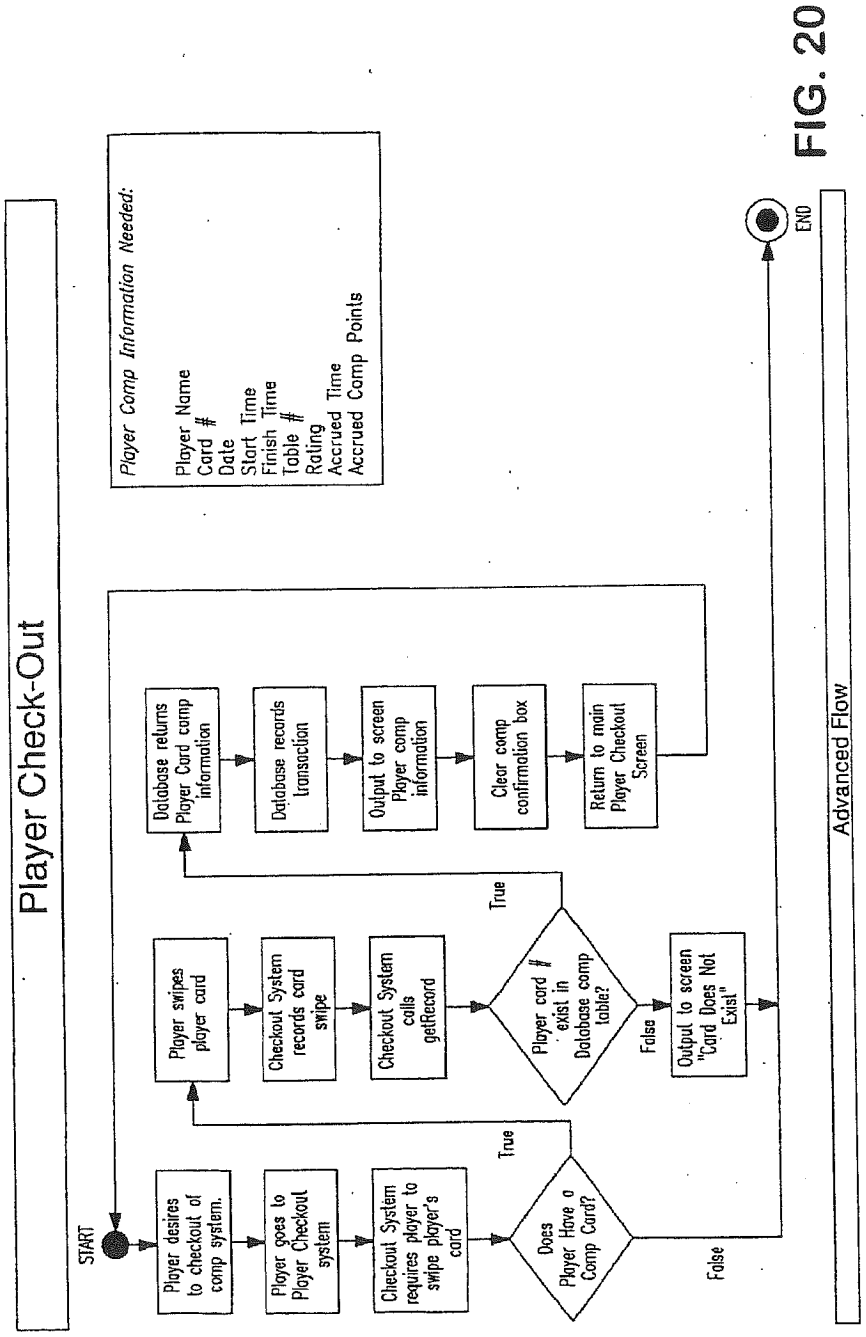

Player Check-Out
Player Comp Information Needed:
Player Name
Card #
Date
Start Time
Finish Time
Table #
Rating
Accrued Time
Accrued Comp Points
START
Player desires to checkout of comp system.
Player goes to Player Checkout system
Checkout System requires player to swipe player's card
Does Player Have a Comp Card?
True
False
Player swipes player card
Checkout System records card swipe
Checkout System calls getRecord
Player card # exist in Database comp table?
True
False
Output to screen "Card Does Not Exist"
Database returns Player Card comp information
Database records transaction
Output to screen Player comp information
Clear comp confirmation box
Return to main Player Checkout Screen
END
Advanced Flow

FIG. 20

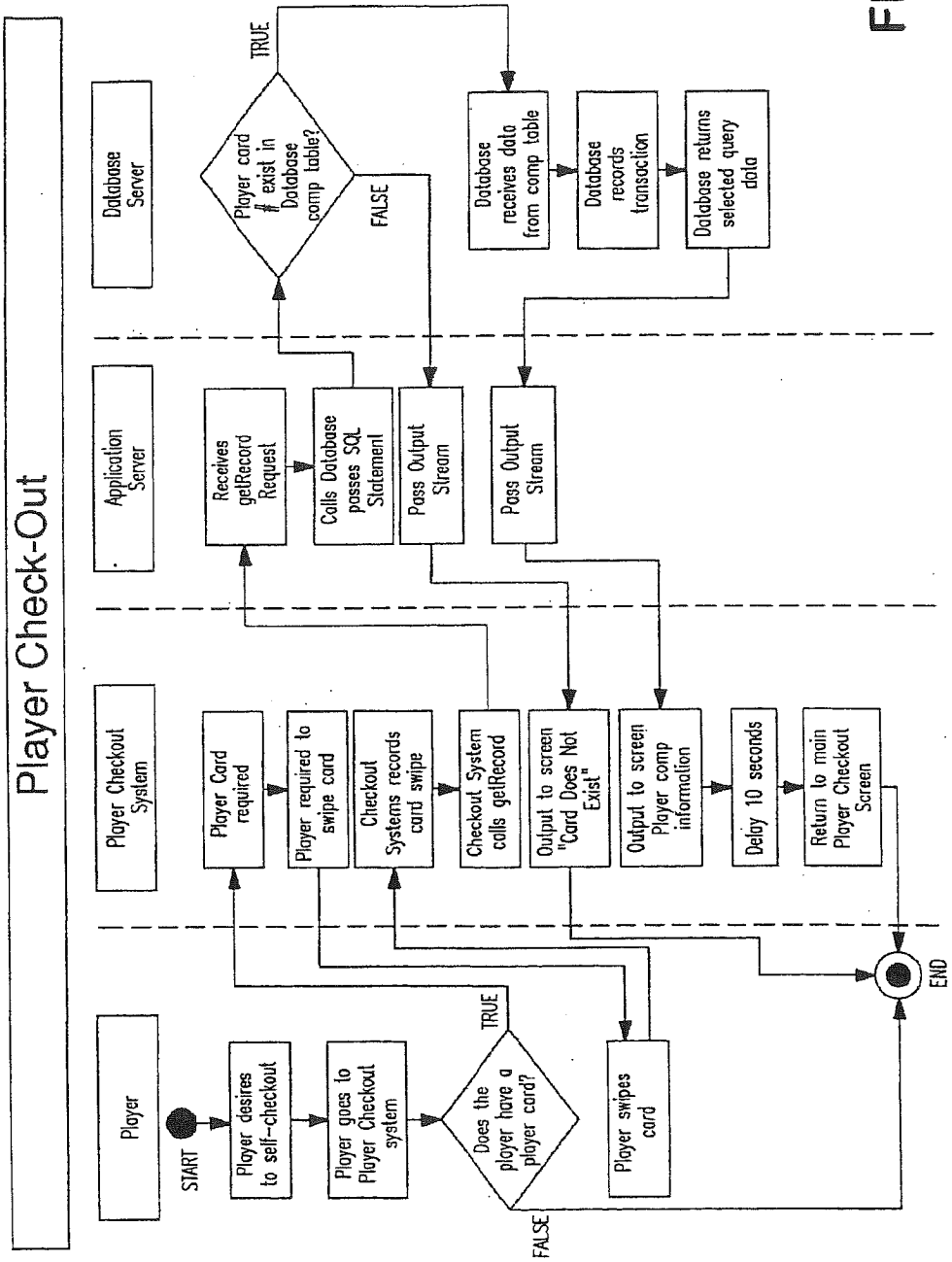

Player Check-Out
Player
Player Checkout System
Application Server
Database Server
START
Player desires to self-checkout
Player goes to Player Checkout system
Does the player have a player card?
TRUE
FALSE
Player swipes card
Player Card required
Player required to swipe card
Checkout Systems records card swipe
Checkout System calls getRecord
Receives getRecord Request
Calls Database passes SQL Statement
Player card # exist in Database comp table?
TRUE
FALSE
Database receives data from comp table
Database records transaction
Database returns selected query data
Pass Output Stream
Pass Output Stream
Output to screen "Card Does Not Exist"
Output to screen Player comp information
Delay 10 seconds
Return to main Player Checkout Screen
END

FIG. 21

Table Tron™ Check-In Ticket

QUEUEOS

Rating Card

Card#	Account#
12345678	

Last Name	First Name	M.I.

Pit#	Game	Table#	Date
Poker	$ 10 - $ 20	25	July 29, 2002

Start Time	Finish Time	Average Bet
14:00:00 EDT		Level 2

Cash	In
	Level 2
Chips	Out
	Level 2
Credit/Cash Advance	Win/Loss
	$

Comments:

Rated By:	Lic#
Sean McCauley	555555
Entered By:	Lic#
Terminal#: TT-5	

Additional Comments

Powered by QueueOS, LLC

Table Tron™ Check-Out Ticket

QUEUEOS

Rating Card

Card#	Account#
12345678	987654321

Last Name	First Name	M.I.
MCCAULEY	SEAN	P

Pit#	Game	Table#	Date
Poker	$ 10 - $ 20	25	July 29, 2002

Start Time	Finish Time	Average Bet
14:00:00 EDT	15:30:00 EDT	Level 2

Cash	In
	Level 2
Chips	Out
	Level 2
Credit/Cash Advance	Win/Loss
	$

Comments:
Game Type: Texas Holdem

Rating Amount: $ 1.00 / hour

Rated By:	Lic#
Sean McCauley	555555
Entered By:	Lic#
Terminal#: TT-5	

Additional Comments

Powered by QueueOS, LLC

FIG. 22

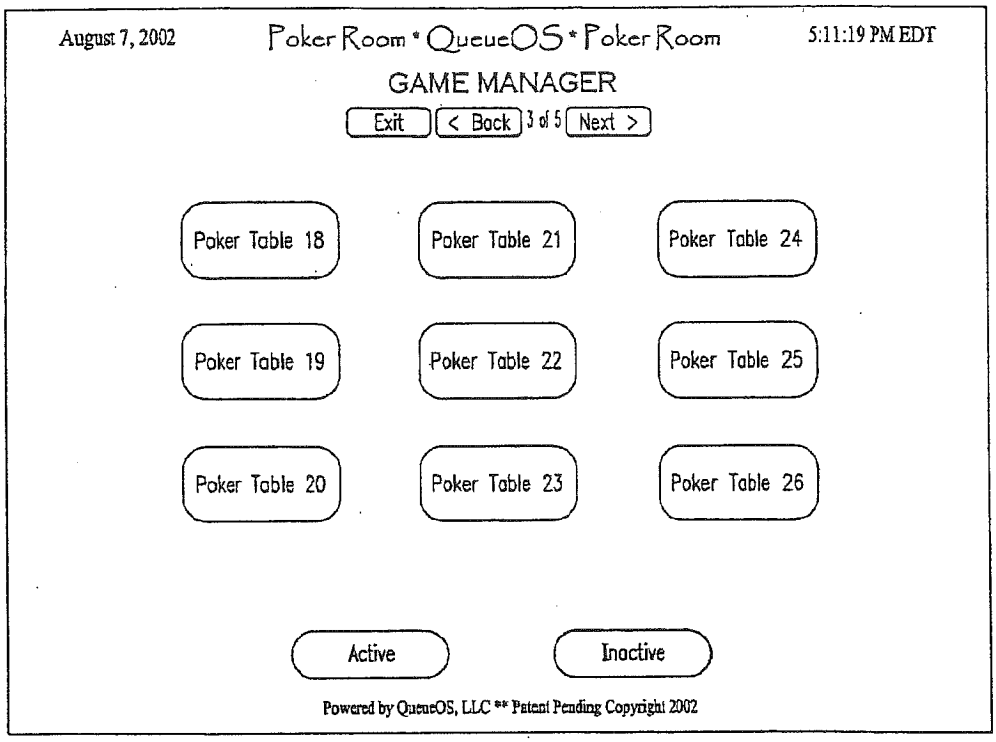
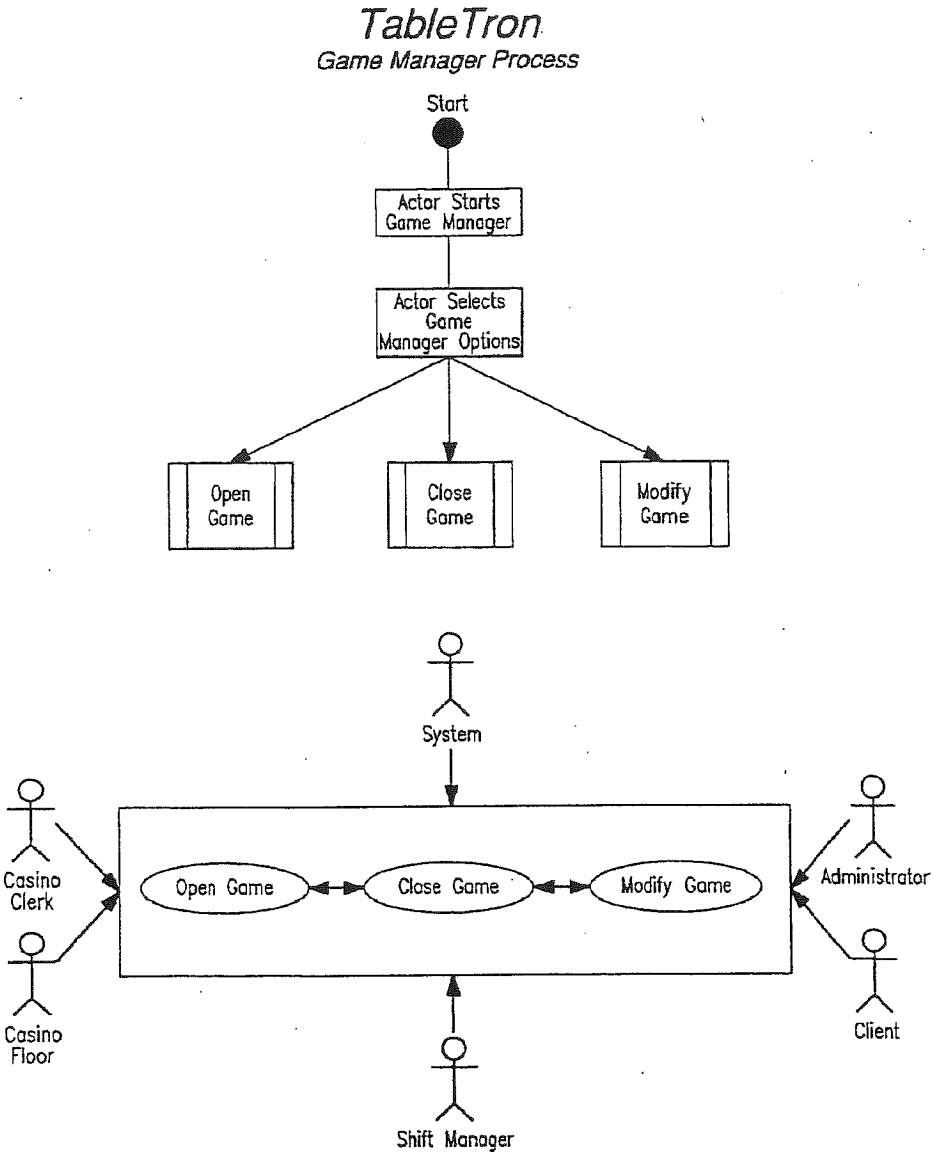

August 7, 2002
Poker Room * QueueOS * Poker Room
5:11:19 PM EDT
GAME MANAGER
Exit
< Back
3 of 5
Next >
Poker Table 18
Poker Table 21
Poker Table 24
Poker Table 19
Poker Table 22
Poker Table 25
Poker Table 20
Poker Table 23
Poker Table 26
Active
Inactive
Powered by QueueOS, LLC ** Patent Pending Copyright 2002

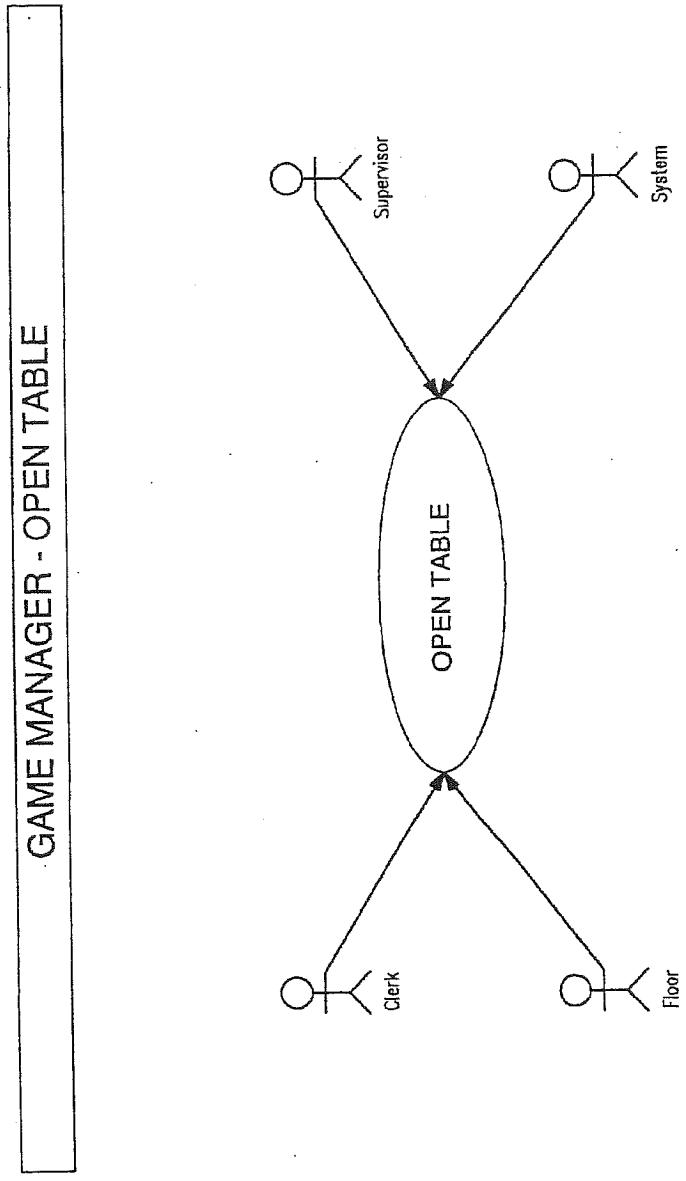
FIG. 23



Game Manager allows certain actors to perform game and table functions. Functions include opening a new game, closing an existing game, and modifying an active game. Game Manager functions directly update List Manager

FIG. 24

FIG. 25


GAME MANAGER - OPEN TABLE
Supervisor
System
OPEN TABLE
Clerk
Floor
USE CASE

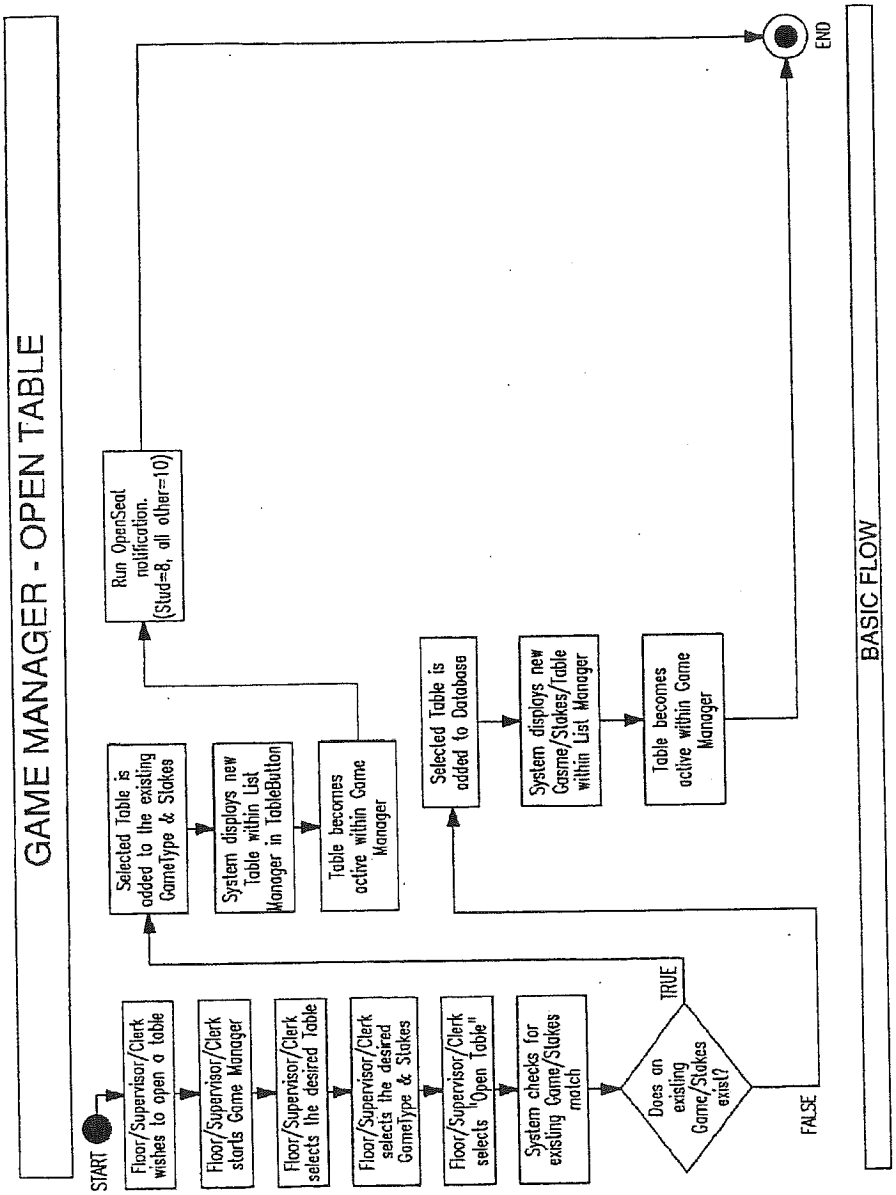

GAME MANAGER - OPEN TABLE
START
Floor/Supervisor/Clerk wishes to open a table
Floor/Supervisor/Clerk starts Game Manager
Floor/Supervisor/Clerk selects the desired Table
Floor/Supervisor/Clerk selects the desired GameType & Stakes
Floor/Supervisor/Clerk selects "Open Table"
System checks for existing Game/Stakes match
Does an existing Game/Stakes exist?
TRUE
FALSE
Selected Table is added to the existing GameType & Stakes
System displays new Table within List Manager in TableButton
Table becomes active within Game Manager
Run OpenSeat notification. (Stud=8, all other=10)
Selected Table is added to Database
System displays new Game/Stakes/Table within List Manager
Table becomes active within Game Manager
END
BASIC FLOW

FIG. 26

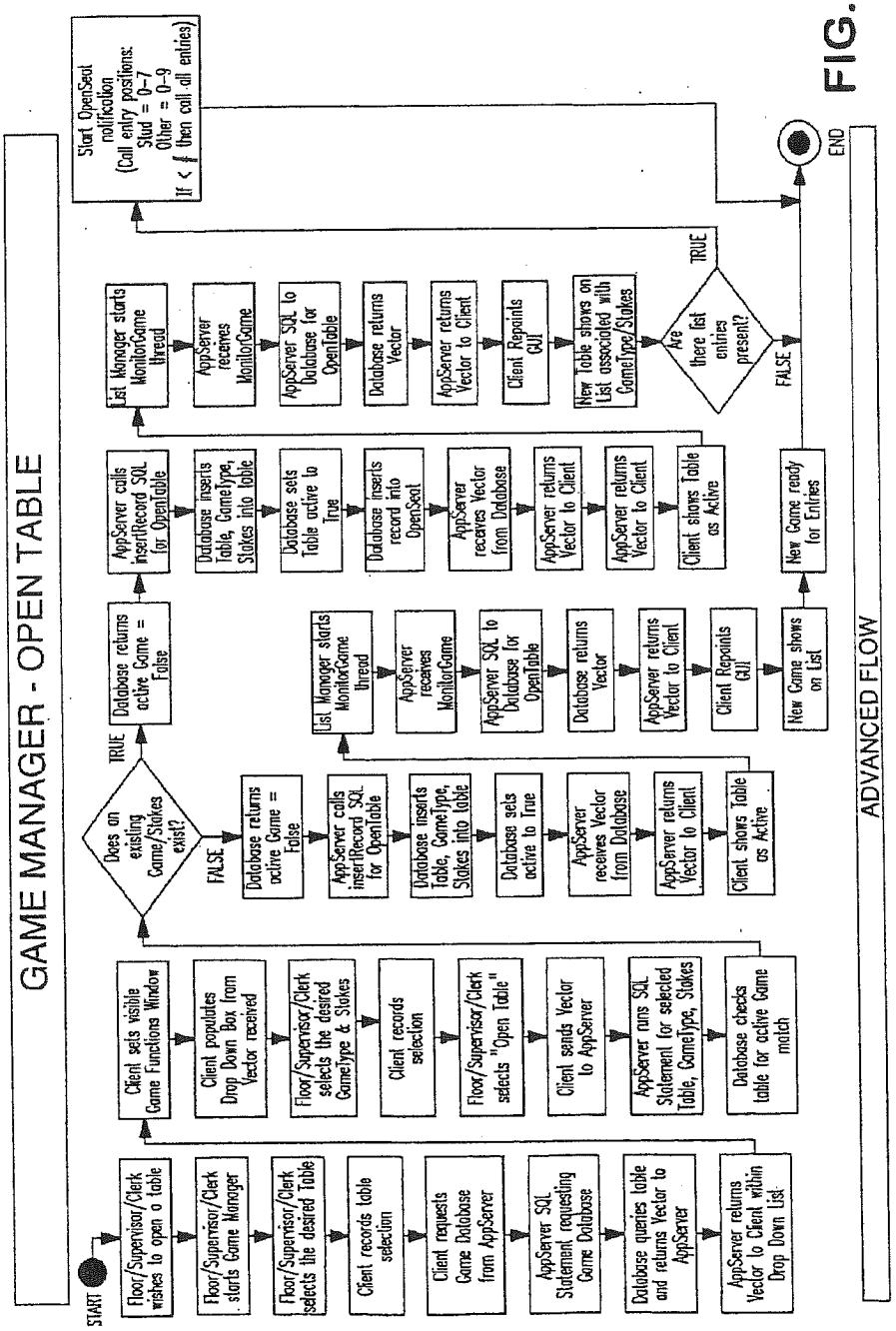

GAME MANAGER - OPEN TABLE
START
Floor/Supervisor/Clerk wishes to open a table
Floor/Supervisor/Clerk starts Game Manager
Floor/Supervisor/Clerk selects the desired Table
Client records table selection
Client requests Game Database from AppServer
AppServer SQL Statement requesting Game Database
Database queries table and returns Vector to AppServer
AppServer returns Vector to Client within Drop Down List
Client sets visible Game Functions Window
Client populates Drop Down Box from Vector received
Floor/Supervisor/Clerk selects the desired GameType & Stakes
Client records selection
Floor/Supervisor/Clerk selects "Open Table"
Client sends Vector to AppServer
AppServer runs SQL Statement for selected Table, GameType, Stakes
Database checks table for active Game match
Does an existing Game/Stakes exist?
TRUE
FALSE
Database returns active Game = False
AppServer calls insertRecord SQL for OpenTable
Database inserts Table, GameType, Stakes into table
Database sets active to True
AppServer receives Vector from Database
AppServer returns Vector to Client
Client shows Table as Active
Database returns active Game = False
AppServer calls insertRecord SQL for OpenTable
Database inserts Table, GameType, Stakes into table
Database sets Table active to True
Database inserts record into OpenSeat
AppServer receives Vector from Database
AppServer returns Vector to Client
AppServer returns Vector to Client
Client shows Table as Active
List Manager starts MonitorGame thread
AppServer receives MonitorGame
AppServer SQL to Database for OpenTable
Database returns Vector
AppServer returns Vector to Client
Client Repaints GUI
New Game shows on List
List Manager starts MonitorGame thread
AppServer receives MonitorGame
AppServer SQL to Database for OpenTable
Database returns Vector
AppServer returns Vector to Client
Client Repaints GUI
New Table shows on List associated with GameType/Stakes
Are 1st there 1st entries present?
TRUE
FALSE
New Game ready for Entries
Start OpenSeat notification (Call entry positions: Stud = 0–7 Other = 0–9 If < 7 then call all entries)
END
ADVANCED FLOW

FIG. 27

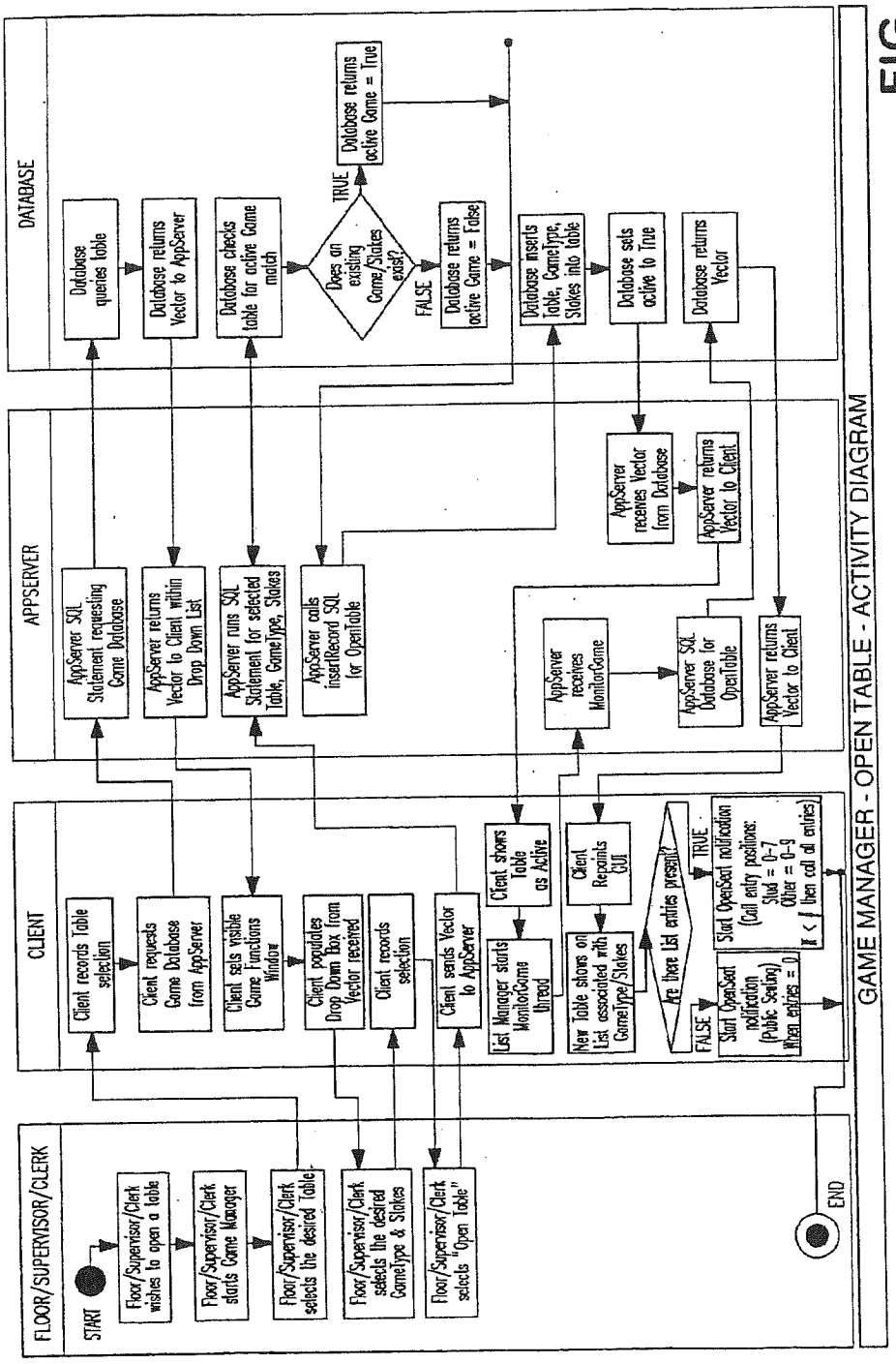
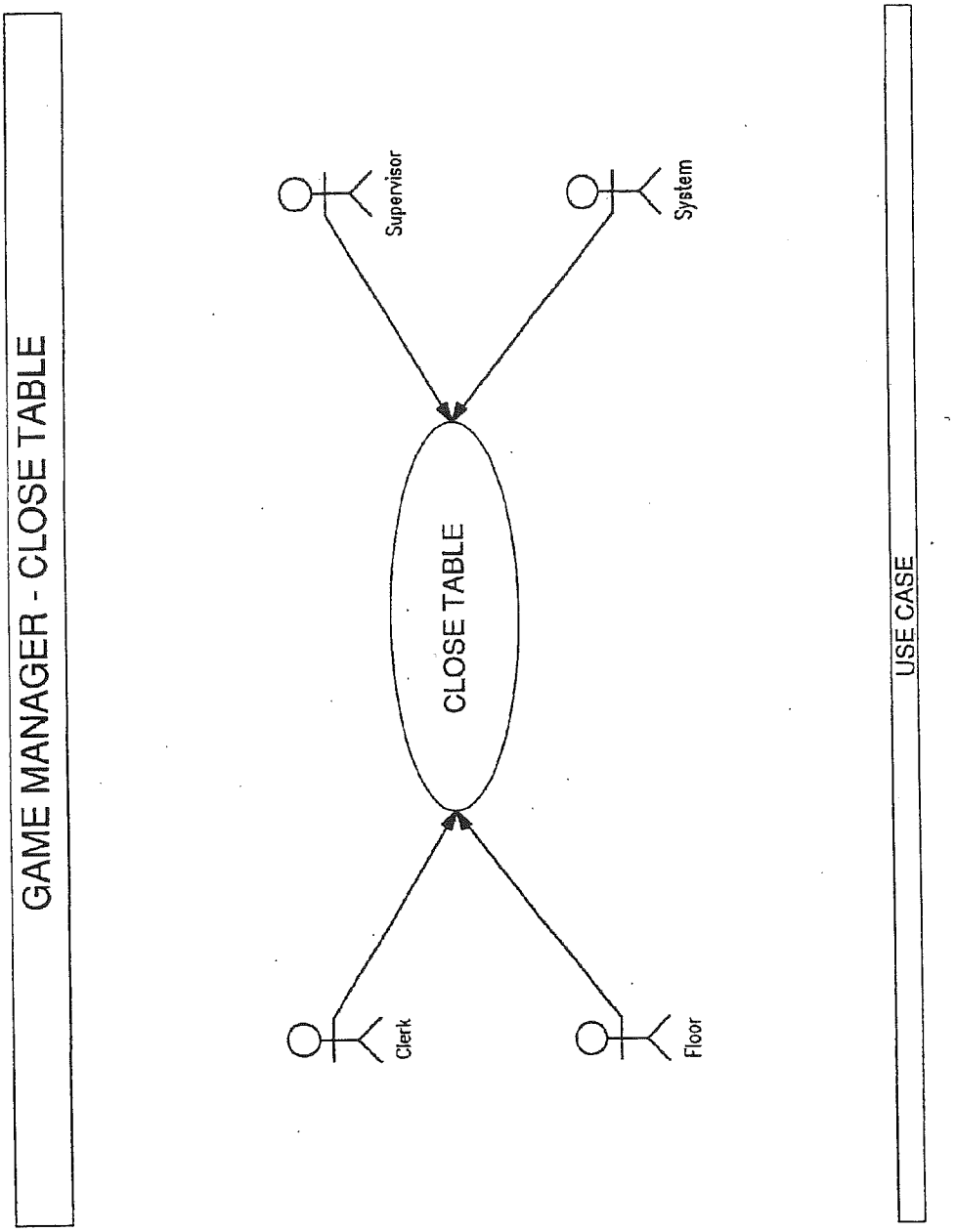

GAME MANAGER - OPEN TABLE - ACTIVITY DIAGRAM
FLOOR/SUPERVISOR/CLERK
START
Floor/Supervisor/Clerk wishes to open a table
Floor/Supervisor/Clerk starts Game Manager
Floor/Supervisor/Clerk selects the desired Table
Floor/Supervisor/Clerk selects the desired GameType & Stakes
Floor/Supervisor/Clerk selects "Open Table"
CLIENT
Client records Table selection
Client requests Game Database from AppServer
Client sets visible Game Functions Window
Client populates Drop Down Box from Vector received
Client records selection
Client sends Vector to AppServer
Client shows Table as Active
List Manager starts MonitorGame thread
Client Repaints GUI
New Table shows on List associated with GameType/Stakes
Are there List entries present?
TRUE
FALSE
Start OpenSeat notification (Public Seating) When entries = 0
Start OpenSeat notification (Call entry positions: Stud = 0-7 Other = 0-9 If < / then call all entries)
END
APPSERVER
AppServer SQL Statement requesting Game Database
AppServer returns Vector to Client within Drop Down List
AppServer runs SQL Statement for selected Table, GameType, Stakes
AppServer calls insertRecord SQL for OpenTable
AppServer receives MonitorGame
AppServer SQL Database for OpenTable
AppServer returns Vector to Client
AppServer receives Vector from Database
AppServer returns Vector to Client
DATABASE
Database queries table
Database returns Vector to AppServer
Database checks table for active Game match
Does an existing Game/Stakes exist?
TRUE
FALSE
Database returns active Game = True
Database returns active Game = False
Database inserts table, GameType, Stakes into table
Database sets active to True
Database returns Vector

FIG. 28

FIG. 29


GAME MANAGER - CLOSE TABLE
Supervisor
System
CLOSE TABLE
Clerk
Floor
USE CASE

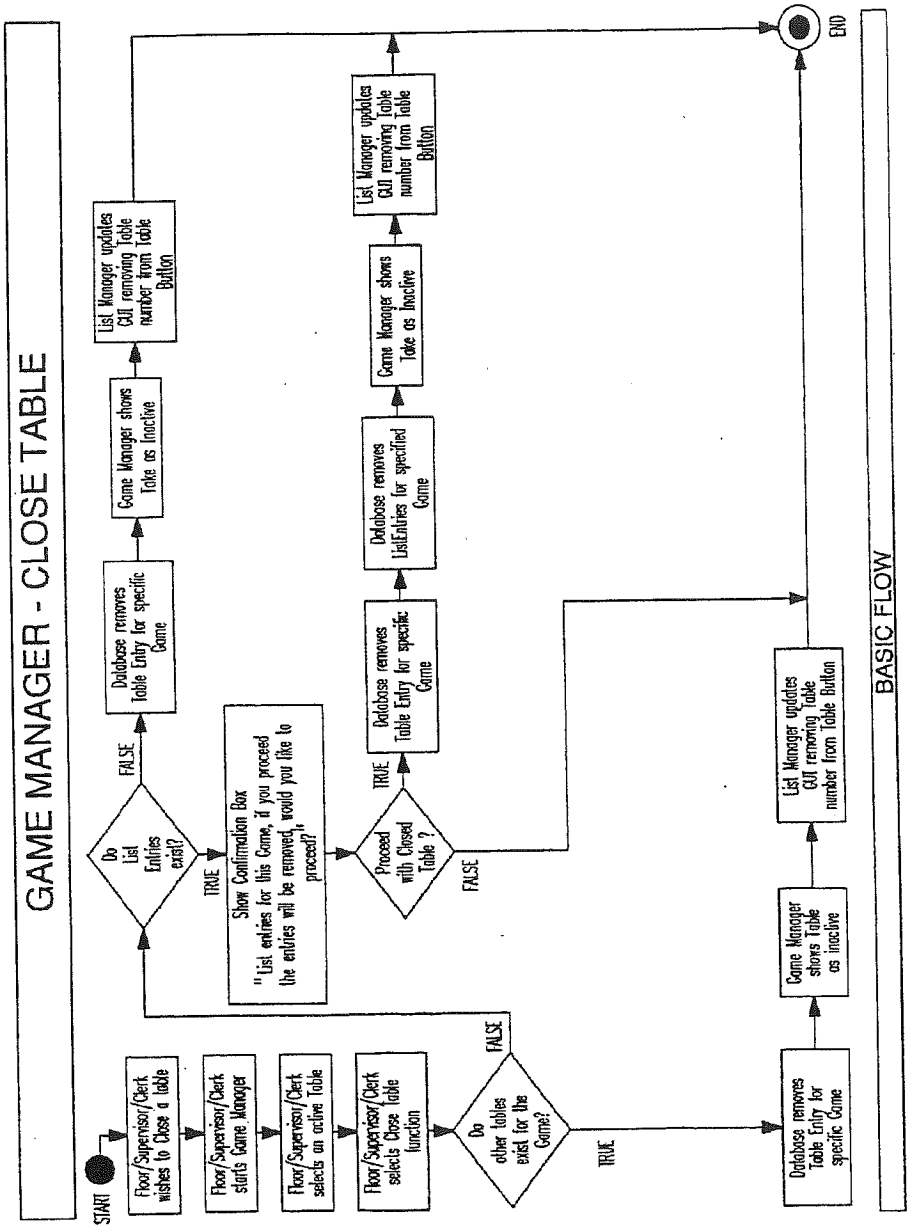

GAME MANAGER - CLOSE TABLE
START
Floor/Supervisor/Clerk wishes to Close a Table
Floor/Supervisor/Clerk starts Game Manager
Floor/Supervisor/Clerk selects an active Table
Floor/Supervisor/Clerk selects Close Table function
Do other tables exist for the Game?
FALSE
TRUE
Database removes Table Entry for specific Game
Game Manager shows Table as Inactive
List Manager updates GUI removing Table number from Table Button
Do List Entries exist?
FALSE
TRUE
Show Confirmation Box "List entries for this Game, if you proceed the entries will be removed, would you like to proceed?"
Proceed with Closed Table ?
TRUE
FALSE
Database removes Table Entry for specific Game
Database removes ListEntries for specified Game
Game Manager shows Table as Inactive
List Manager updates GUI removing Table number from Table Button
List Manager updates GUI removing Table number from Table Button
END
BASIC FLOW

FIG. 30

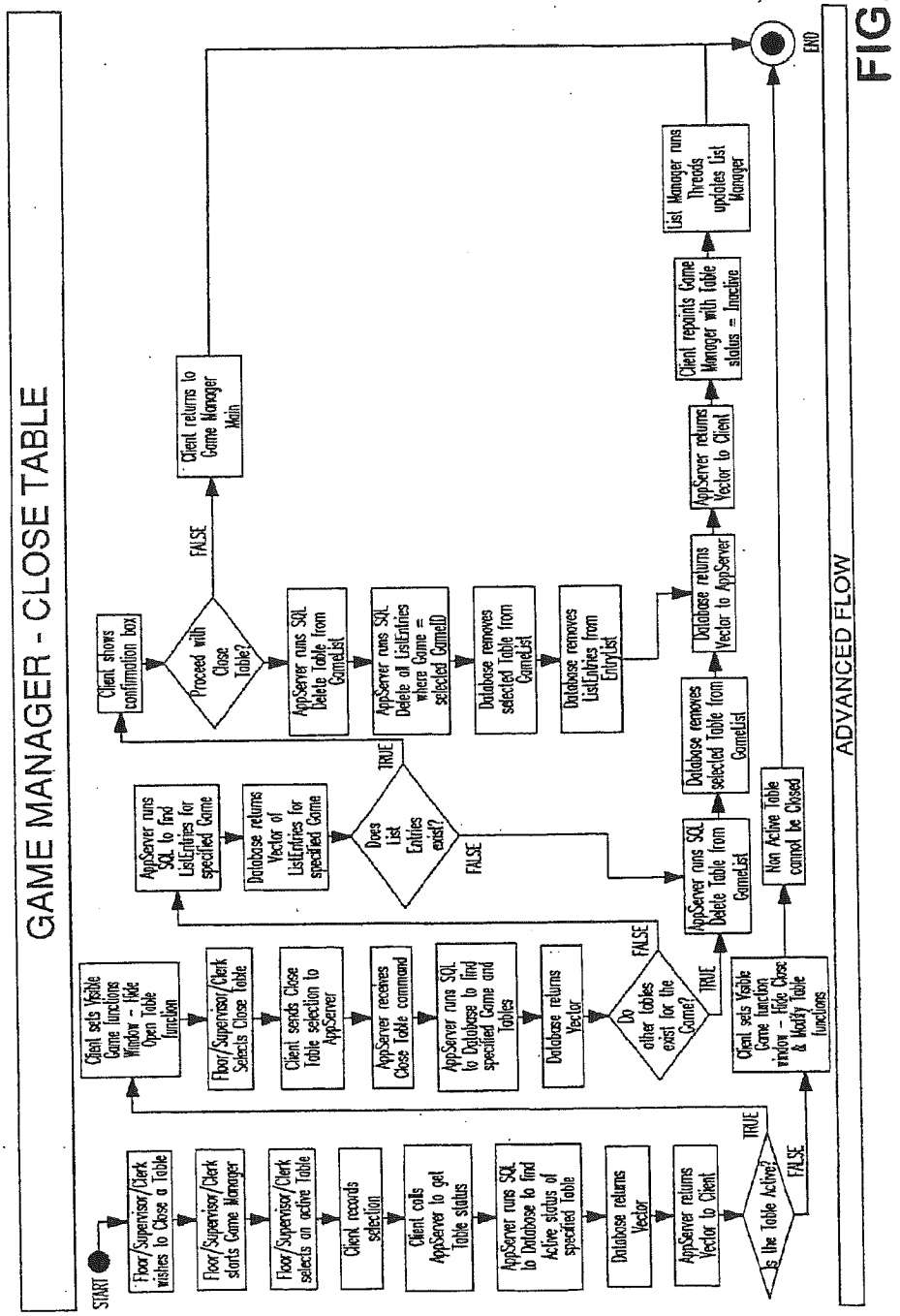

GAME MANAGER - CLOSE TABLE
ADVANCED FLOW
START
END
Floor/Supervisor/Clerk wishes to Close a Table
Floor/Supervisor/Clerk starts Game Manager
Floor/Supervisor/Clerk selects an active Table
Client records selection
Client calls AppServer to get Table status
AppServer runs SQL to Database to find Active status of specified Table
Database returns Vector
AppServer returns Vector to Client
Is the Table Active?
TRUE
FALSE
Client sets Visible Game functions Window - Hide Open Table function
Floor/Supervisor/Clerk Selects Close Table
Client sends Close Table selection to AppServer
AppServer receives Close Table command
AppServer runs SQL to Database to find specified Game and Tables
Database returns Vector
Do other tables exist for the Game?
TRUE
FALSE
Client sets Visible Game function window - Hide Close & Modify Table functions
Non Active Table cannot be Closed
AppServer runs SQL to find ListEntries for specified Game
Database returns Vector of ListEntries for specified Game
Does List Entries exist?
TRUE
FALSE
AppServer runs SQL Delete Table from GameList
Database removes selected Table from GameList
Database returns Vector to AppServer
AppServer returns Vector to Client
Client reports Game Manager with Table status = Inactive
List Manager runs Threads updates List Manager
Client shows confirmation box
Proceed with Close Table?
TRUE
FALSE
AppServer runs SQL Delete Table from GameList
AppServer runs SQL Delete all ListEntries where Game = selected GameID
Database removes selected Table from GameList
Database removes ListEntries from EntryList
Client returns to Game Manager Main

FIG. 31

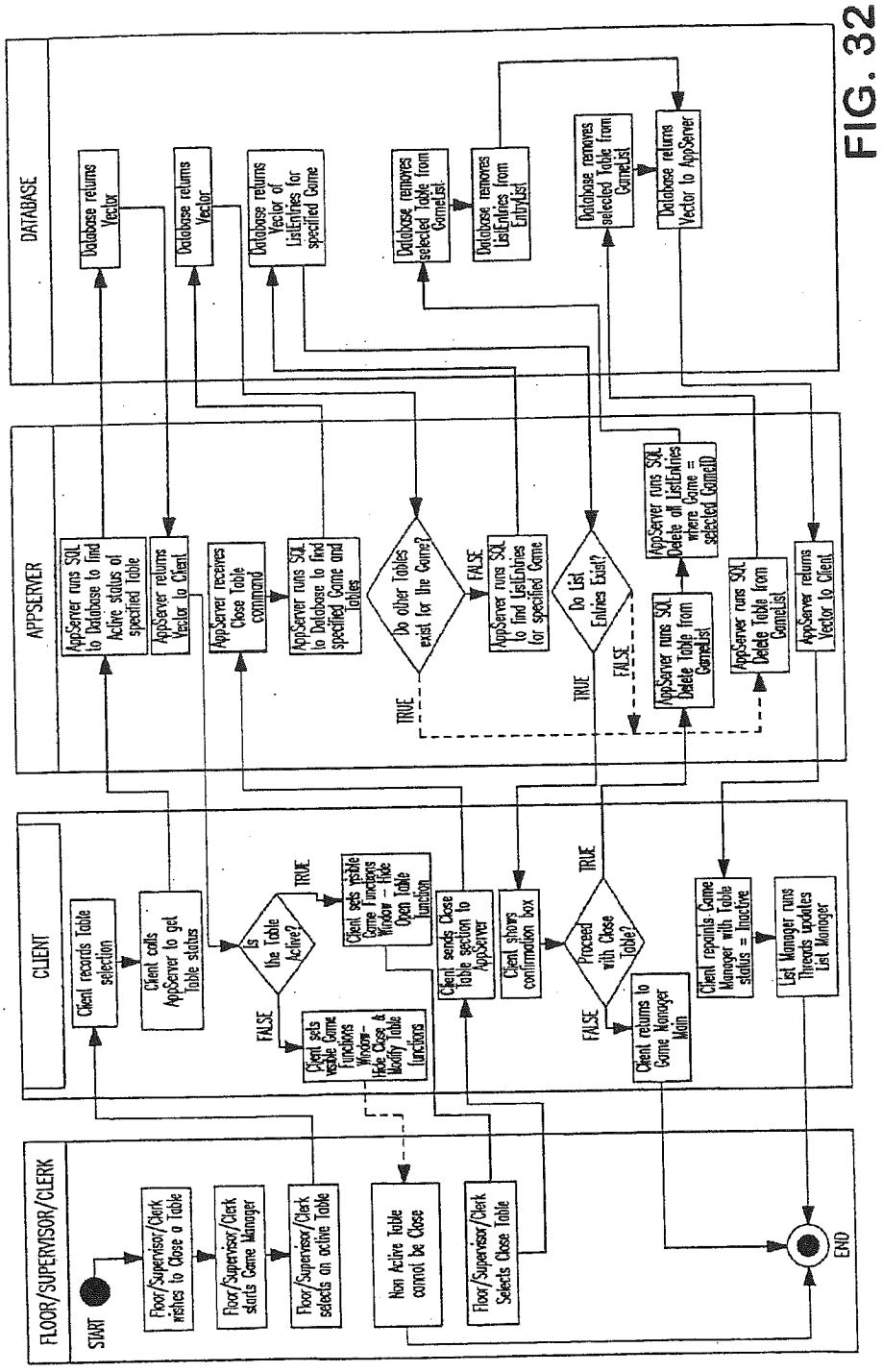

DATABASE
Database returns Vector
Database returns Vector
Database returns Vector of ListEntries for specified Game
Database removes selected Table from GameList
Database removes ListEntries from EntryList
Database removes selected Table from GameList
Database returns Vector to AppServer
APPSERVER
AppServer runs SQL to Database to find Active status of specified Table
AppServer returns Vector to Client
AppServer receives Close Table command
AppServer runs SQL to Database to find specified Game and Tables
Do other Tables exist for the Game?
TRUE
FALSE
AppServer runs SQL to find ListEntries for specified Game
Do List Entries Exist?
TRUE
FALSE
AppServer runs SQL Delete all ListEntries where Game = selected GameID
AppServer runs SQL Delete Table from GameList
AppServer runs SQL Delete Table from GameList
AppServer returns Vector to Client
CLIENT
Client records Table selection
Client calls AppServer to get Table status
Is the Table Active?
TRUE
FALSE
Client sets visible Game Functions Window – Hide Open Table function
Client sets visible Game Functions Window – Hide Close & Modify Table functions
Client sends Close Table selection to AppServer
Client shows confirmation box
Proceed with Close Table?
TRUE
FALSE
Client returns to Game Manager Main
Client repoints Game Manager with Table status = Inactive
List Manager runs Threads updates List Manager
FLOOR/SUPERVISOR/CLERK
START
Floor/Supervisor/Clerk wishes to Close a Table
Floor/Supervisor/Clerk starts Game Manager
Floor/Supervisor/Clerk selects an active Table
Non Active Table cannot be Close
Floor/Supervisor/Clerk Selects Close Table
END

FIG. 32

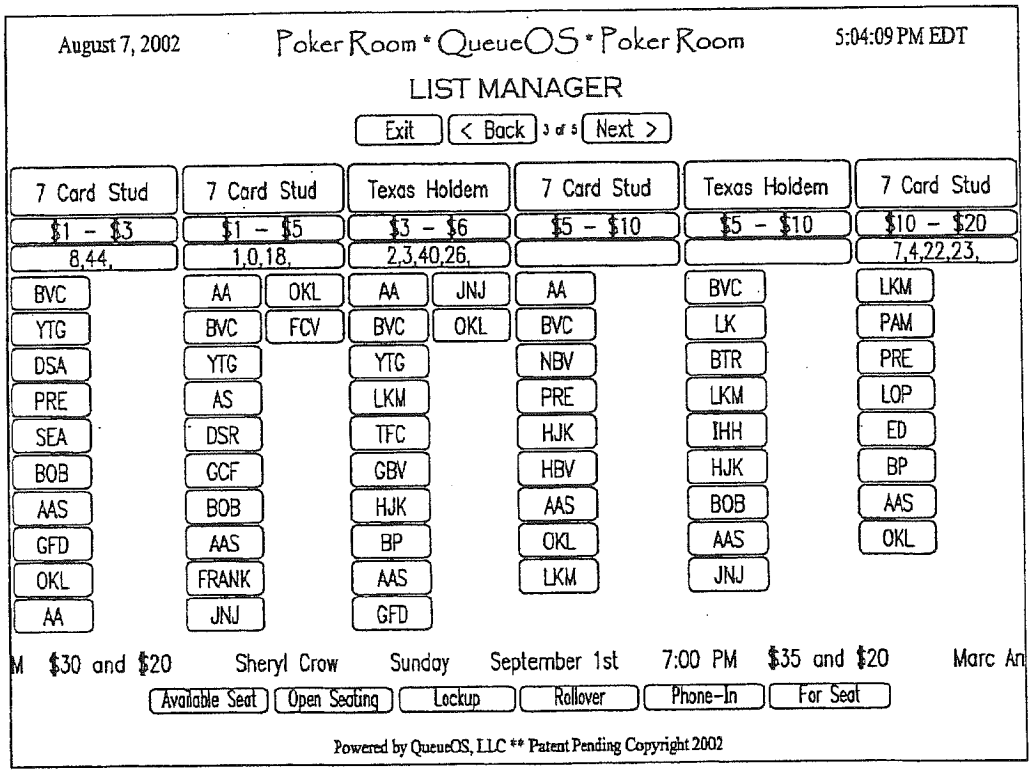

August 7, 2002
Poker Room * QueueOS * Poker Room
5:04:09 PM EDT
LIST MANAGER
Exit
< Back
3 of 5
Next >
7 Card Stud
$1 - $3
8,44,
BVC
YTG
DSA
PRE
SEA
BOB
AAS
GFD
OKL
AA
7 Card Stud
$1 - $5
1,0,18,
AA
OKL
BVC
FCV
YTG
AS
DSR
GCF
BOB
AAS
FRANK
JNJ
Texas Holdem
$3 - $6
2,3,40,26,
AA
JNJ
BVC
OKL
YTG
LKM
TFC
GBV
HJK
BP
AAS
GFD
7 Card Stud
$5 - $10
AA
BVC
NBV
PRE
HJK
HBV
AAS
OKL
LKM
Texas Holdem
$5 - $10
BVC
LK
BTR
LKM
IHH
HJK
BOB
AAS
JNJ
7 Card Stud
$10 - $20
7,4,22,23,
LKM
PAM
PRE
LOP
ED
BP
AAS
OKL
M $30 and $20 Sheryl Crow Sunday September 1st 7:00 PM $35 and $20 Marc An
Available Seat
Open Seating
Lockup
Rollover
Phone-In
For Seat
Powered by QueueOS, LLC ** Patent Pending Copyright 2002

FIG. 33

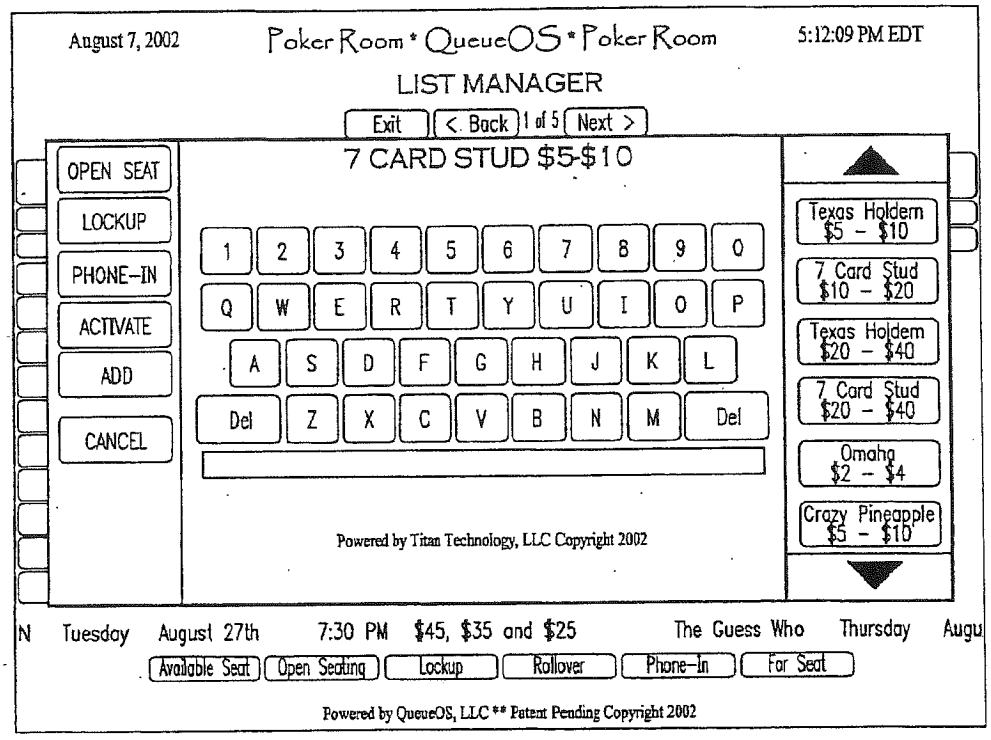
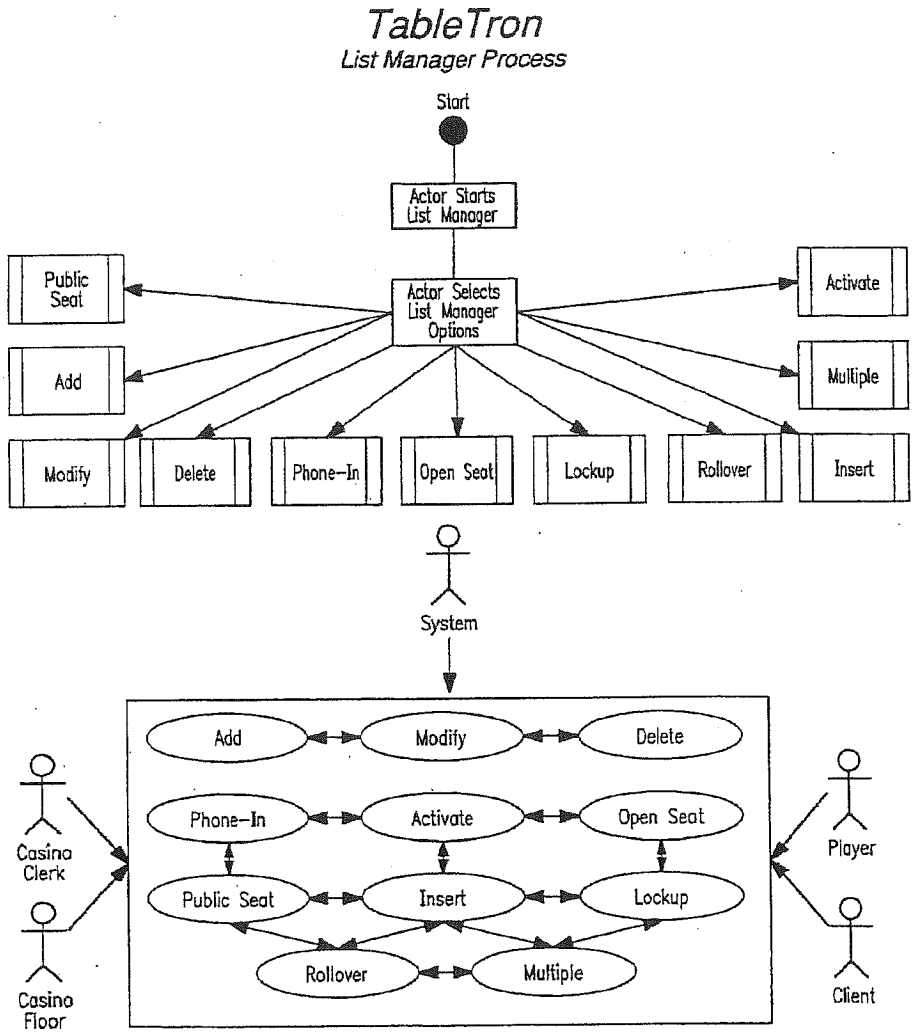

August 7, 2002
Poker Room * QueueOS * Poker Room
5:12:09 PM EDT
LIST MANAGER
Exit
< Back
1 of 5
Next >
OPEN SEAT
LOCKUP
PHONE-IN
ACTIVATE
ADD
CANCEL
7 CARD STUD $5-$10
1 2 3 4 5 6 7 8 9 0
Q W E R T Y U I O P
A S D F G H J K L
Del Z X C V B N M Del
Powered by Titan Technology, LLC Copyright 2002
Texas Holdem $5 - $10
7 Card Stud $10 - $20
Texas Holdem $20 - $40
7 Card Stud $20 - $40
Omaha $2 - $4
Crazy Pineapple $5 - $10
N Tuesday August 27th 7:30 PM $45, $35 and $25 The Guess Who Thursday Augu
Available Seat
Open Seating
Lockup
Rollover
Phone-In
For Seat
Powered by QueueOS, LLC ** Patent Pending Copyright 2002

FIG. 34



List Manager allows certain actors to perform List or queue functions. Functions affecting players include adding, modifying, deleting, phone-in, activating, inserting, open seat, rollover, lockup, public seat, and multiple.

FIG. 35

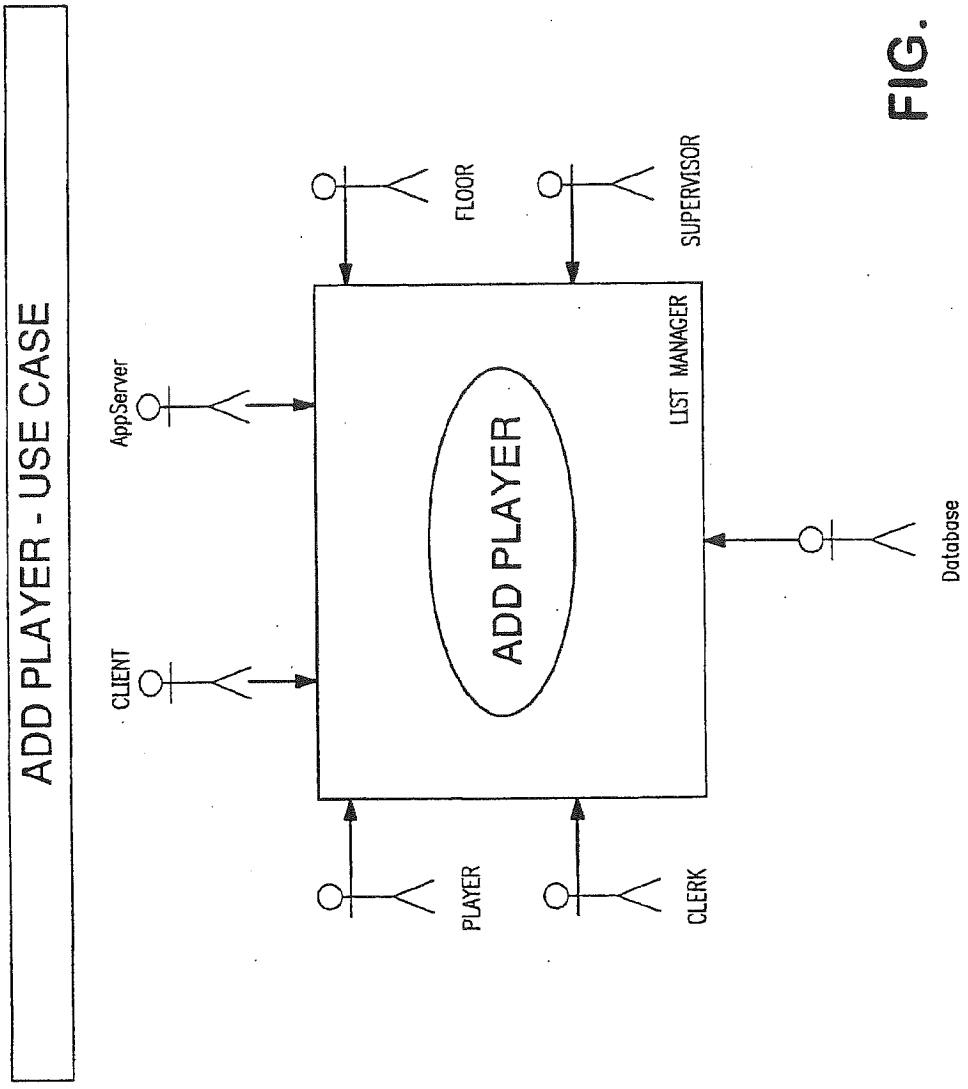

ADD PLAYER - USE CASE
FLOOR
SUPERVISOR
AppServer
LIST MANAGER
ADD PLAYER
Database
CLIENT
PLAYER
CLERK

FIG. 36

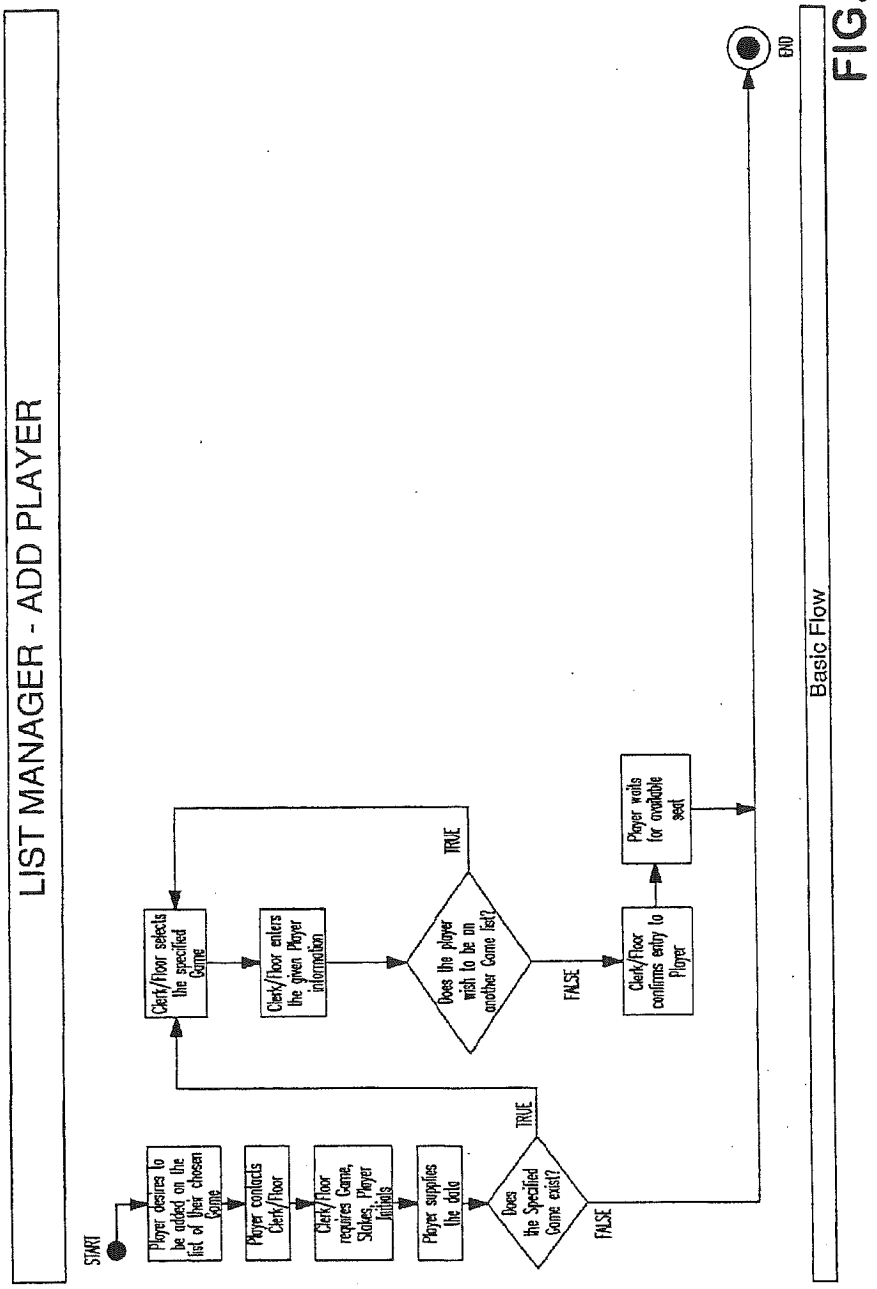

LIST MANAGER - ADD PLAYER
START
Player desires to be added on the list of their chosen Game
Player contacts Clerk/Floor
Clerk/Floor requires Game, Stakes, Player Initials
Player supplies the data
Does the Specified Game exist?
TRUE
FALSE
Clerk/Floor selects the specified Game
Clerk/Floor enters the given Player information
Does the player wish to be on another Game list?
TRUE
FALSE
Clerk/Floor confirms entry to Player
Player waits for available seat
END
Basic Flow

FIG. 37

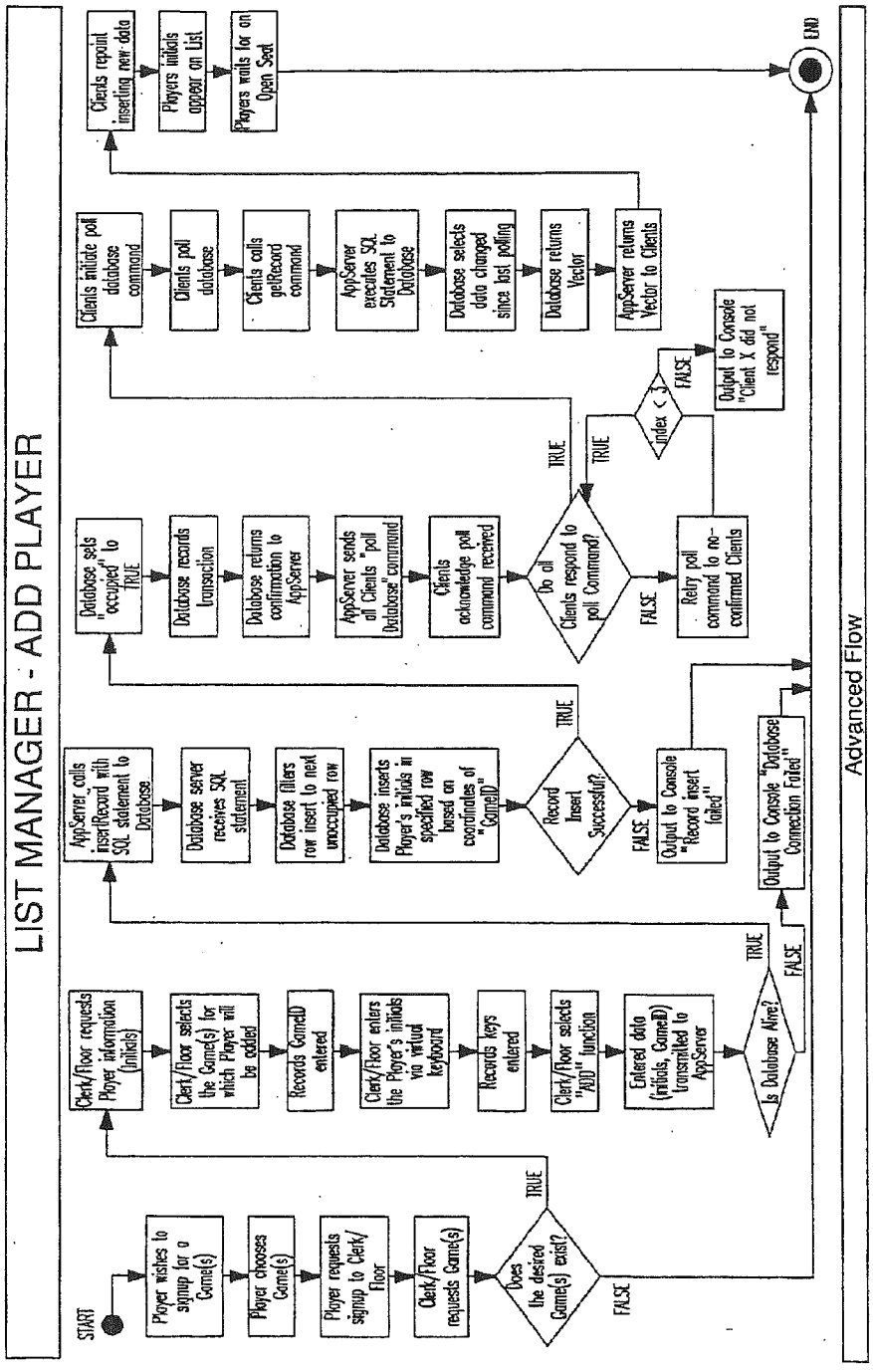

LIST MANAGER - ADD PLAYER
START
Player wishes to signup for a Game(s)
Player chooses Game(s)
Player requests signup to Clerk/Floor
Clerk/Floor requests Game(s)
Does the desired Game(s) exist?
TRUE
FALSE
Clerk/Floor requests Player information (Initials)
Clerk/Floor selects the Game(s) for which Player will be added
Records GameID entered
Clerk/Floor enters the Player's initials via virtual keyboard
Records keys entered
Clerk/Floor selects "ADD" function
Entered data (Initials, GameID) transmitted to AppServer
Is Database Alive?
TRUE
FALSE
Output to Console "Database Connection Failed."
AppServer calls insertRecord with SQL statement to Database
Database server receives SQL statement
Database filters row insert to next unoccupied row
Database inserts Player's initials in specified row based on coordinates of "GameID."
Record Insert Successful?
TRUE
FALSE
Output to Console "Record insert failed."
Database sets "occupied" to TRUE
Database records transaction
Database returns confirmation to AppServer
AppServer sends all Clients "poll Database" command
Clients acknowledge poll command received
Do all Clients respond to poll Command?
TRUE
FALSE
Retry poll command to no-confirmed Clients
Index < 3
TRUE
FALSE
Output to Console "Client X did not respond"
Clients initiate poll database command
Clients poll database
Clients calls getRecord command
AppServer executes SQL Statement to Database
Database selects data changed since last polling
Database returns Vector
AppServer returns Vector to Clients
Clients repoint inserting new data
Players initials appear on List
Players waits for an Open Seat
END
Advanced Flow

FIG. 38

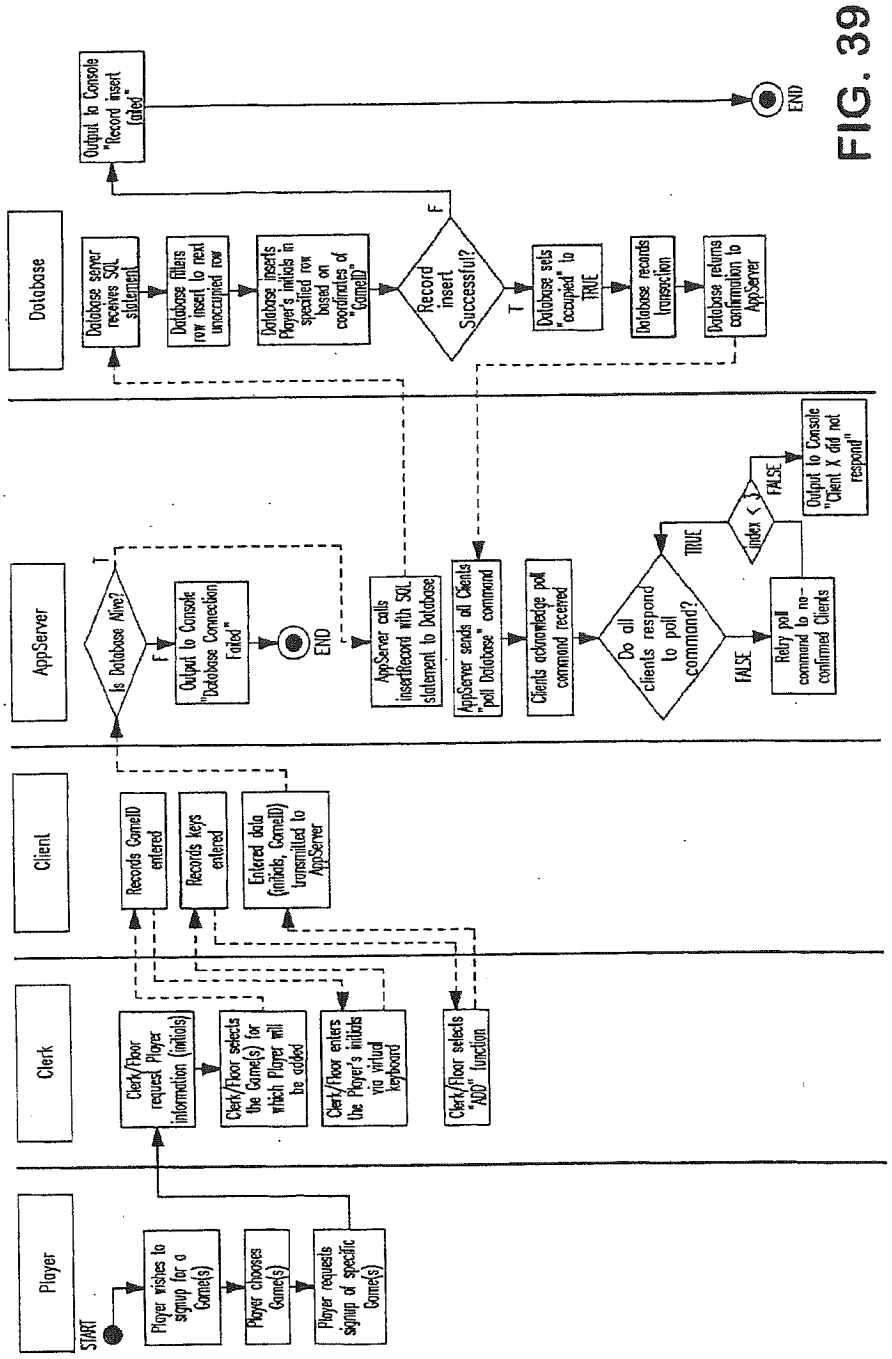

Player
Clerk
Client
AppServer
Database
START
Player wishes to signup for a Game(s)
Player chooses Game(s)
Player requests signup of specific Game(s)
Clerk/Floor request Player information (initials)
Clerk/Floor selects the Game(s) for which Player will be added
Clerk/Floor enters the Player's initials via virtual keyboard
Clerk/Floor selects "ADD" function
Records GameID entered
Records keys entered
Entered data (initials, GameID) transmitted to AppServer
Is Database Alive?
T
F
Output to Console "Database Connection Failed"
END
AppServer calls insertRecord with SQL statement to Database
AppServer sends all Clients "poll Database" command
Clients acknowledge poll command received
Do all clients respond to poll command?
TRUE
FALSE
Retry poll command to non-confirmed Clients
Index < 3
FALSE
Output to Console "Client X did not respond"
Database server receives SQL statement
Database filters row insert to next unoccupied row
Database inserts Player's initials in specified row based on coordinates of "GameID"
Record insert Successful?
T
F
Database sets "occupied" to TRUE
Database records transaction
Database returns confirmation to AppServer
Output to Console "Record insert failed"
END

FIG. 39

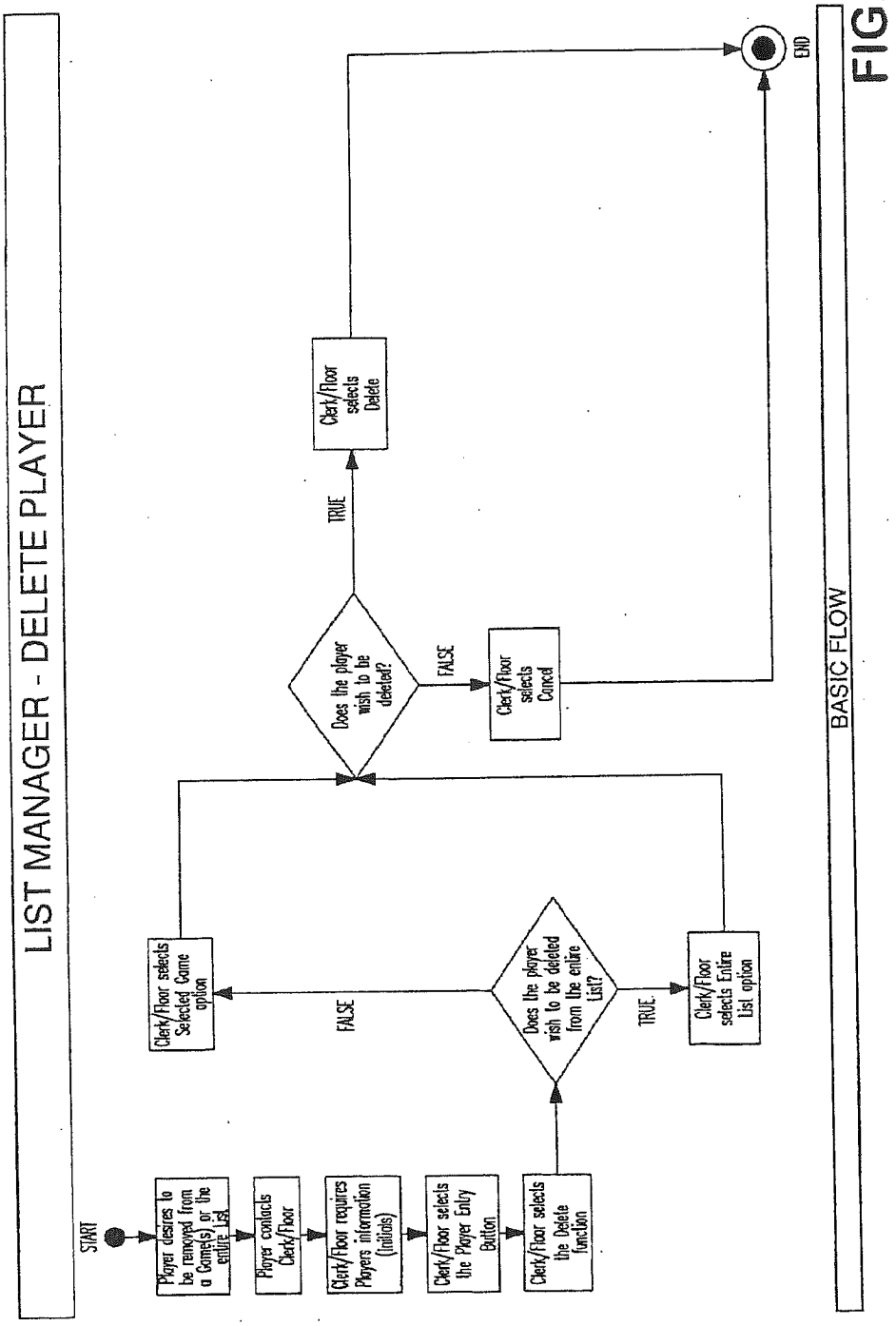

LIST MANAGER - DELETE PLAYER
START
Player desires to be removed from a Game(s), or the entire List
Player contacts Clerk/Floor
Clerk/Floor requires Players information (initials)
Clerk/Floor selects the Player Entry Button
Clerk/Floor selects the Delete function
Does the player wish to be deleted from the entire List?
TRUE
Clerk/Floor selects Entire List option
FALSE
Clerk/Floor selects Selected Game option
Does the player wish to be deleted?
TRUE
Clerk/Floor selects Delete
FALSE
Clerk/Floor selects Cancel
END
BASIC FLOW

FIG. 40

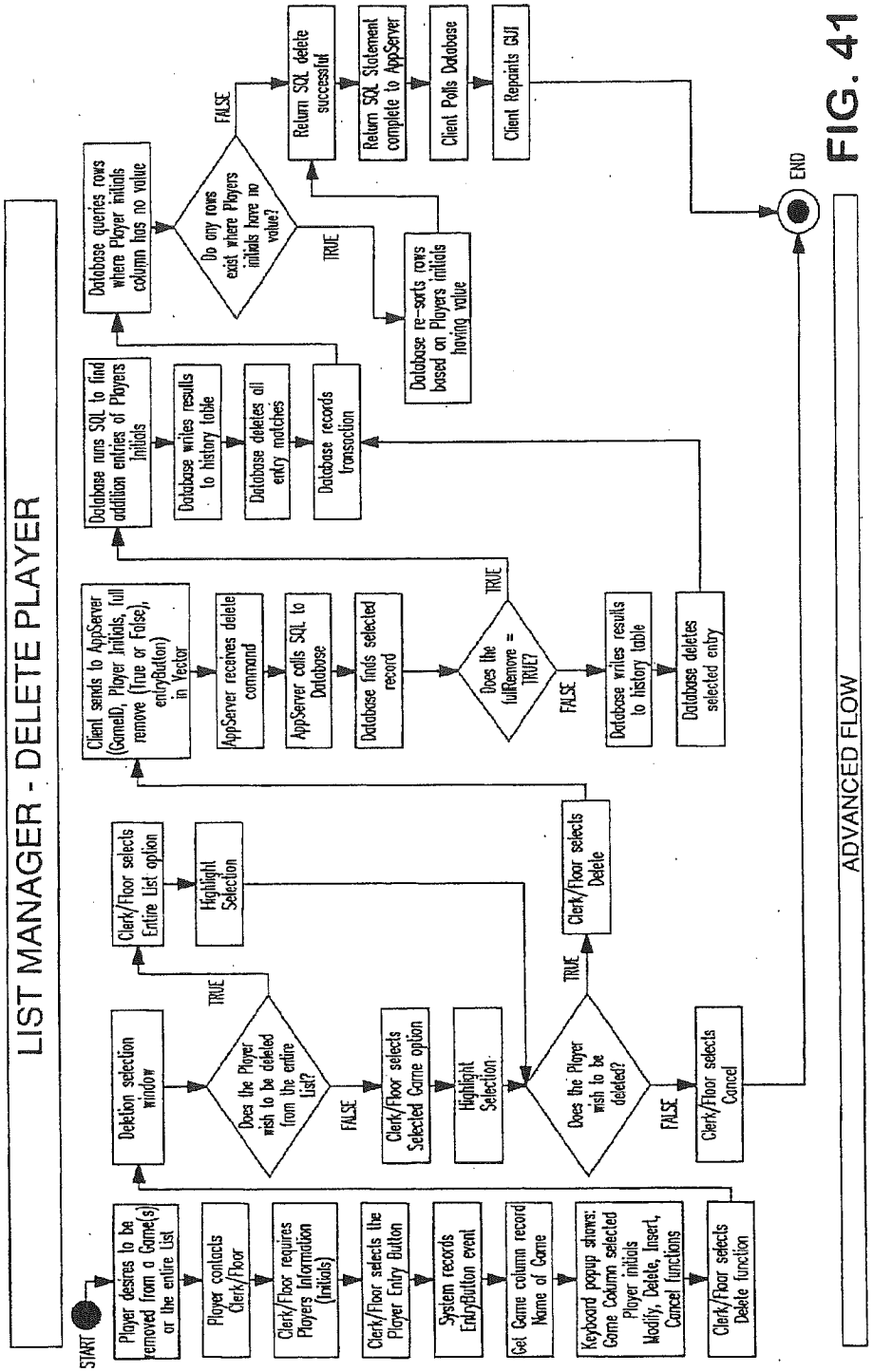

LIST MANAGER - DELETE PLAYER
START
Player desires to be removed from a Game(s) or the entire List
Player contacts Clerk/Floor
Clerk/Floor requires Players Information (Initials)
Clerk/Floor selects the Player Entry Button
System records EntryButton event
Get Game column record Name of Game
Keyboard popup shows: Game Column selected Player initials Modify, Delete, Insert, Cancel functions
Clerk/Floor selects Delete function
Deletion selection window
Does the Player wish to be deleted from the entire List?
TRUE
FALSE
Clerk/Floor selects Entire List option
Highlight Selection
Clerk/Floor selects Selected Game option
Highlight Selection
Does the Player wish to be deleted?
TRUE
FALSE
Clerk/Floor selects Delete
Clerk/Floor selects Cancel
Client sends to AppServer (GameID, Player initials, full remove (True or False), entryButton) in Vector
AppServer receives delete command
AppServer calls SQL to Database
Database finds selected record
Does the fullRemove = TRUE?
TRUE
FALSE
Database writes results to history table
Database deletes selected entry
Database runs SQL to find addition entries of Players Initials
Database writes results to history table
Database deletes all entry matches
Database records transaction
Database queries rows where Player initials column has no value
Do any rows exist where Players initials have no value?
TRUE
FALSE
Database re-sorts rows based on Players initials having value
Return SQL delete successful
Return SQL Statement complete to AppServer
Client Polls Database
Client Repaints GUI
END
ADVANCED FLOW

FIG. 41

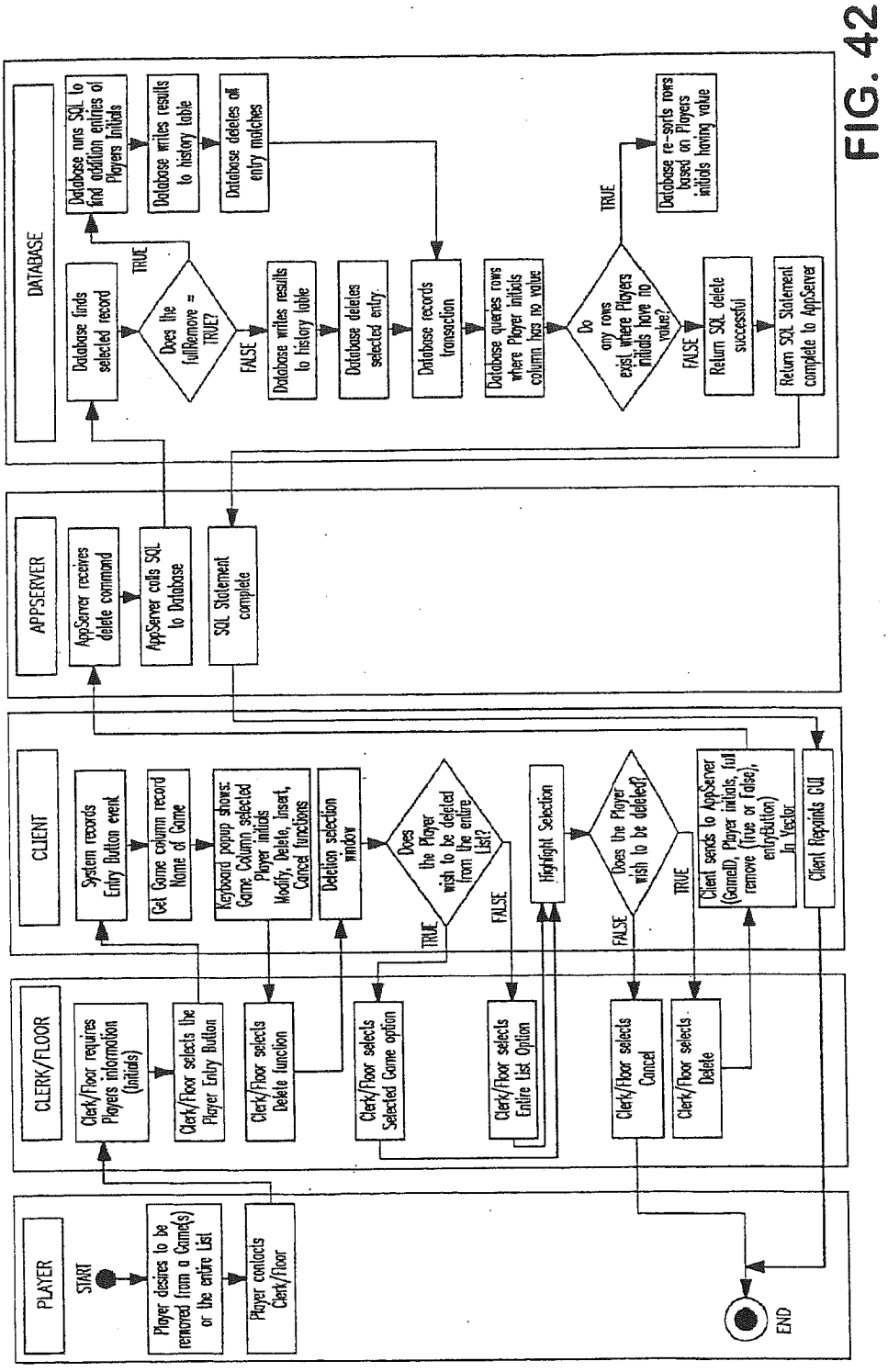
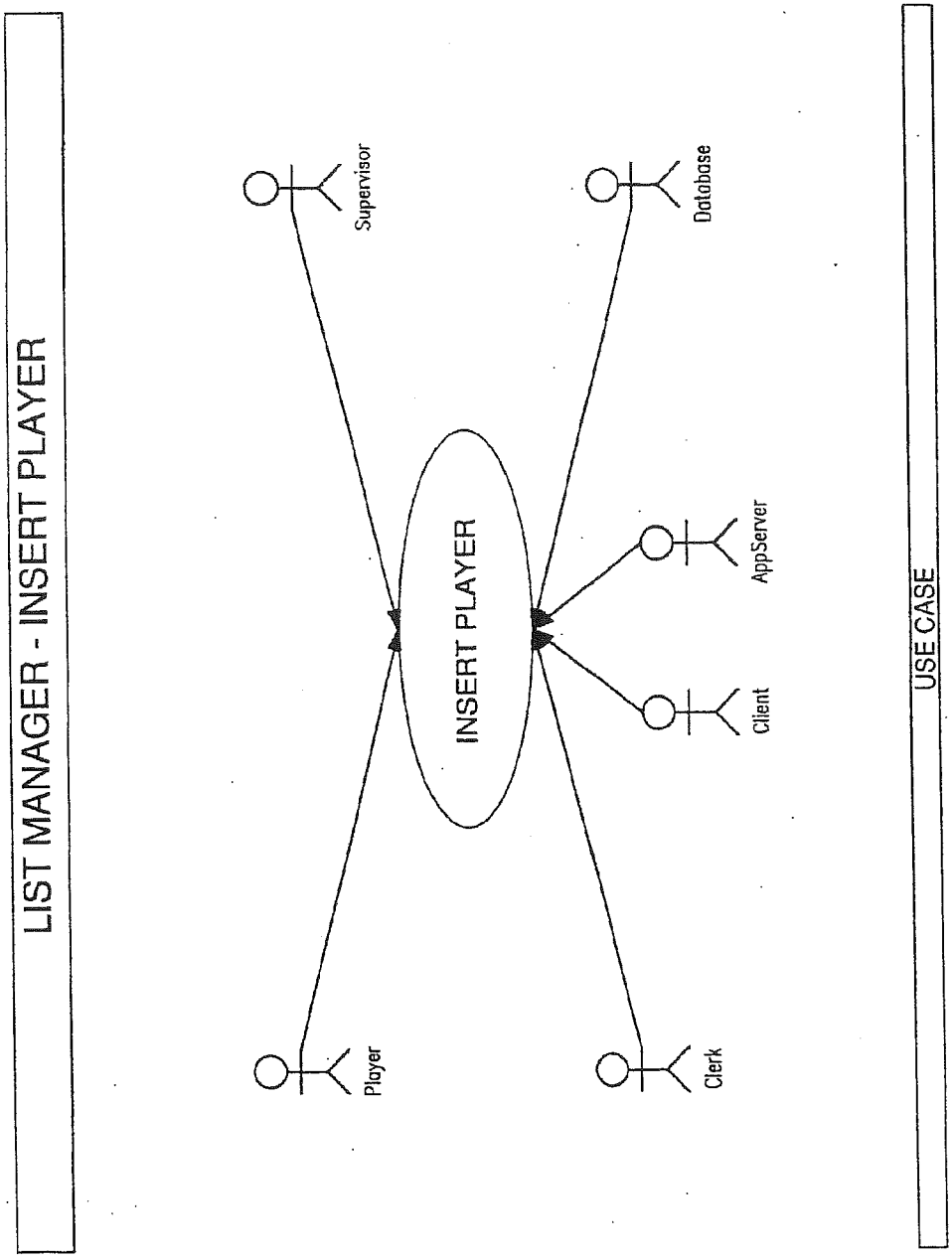

PLAYER
START
Player desires to be removed from a Game(s) or the entire List
Player contacts Clerk/Floor
CLERK/FLOOR
Clerk/Floor requires Players information (Initials)
Clerk/Floor selects the Player Entry Button
Clerk/Floor selects Delete function
Clerk/Floor selects Selected Game option
Clerk/Floor selects Entire List Option
Clerk/Floor selects Cancel
Clerk/Floor selects Delete
END
CLIENT
System records Entry Button event
Get Game column record Name of Game
Keyboard popup shows: Game Column, selected Player initials Modify, Delete, Insert, Cancel functions
Deletion selection window
Does the Player wish to be deleted from the entire List?
TRUE
FALSE
Highlight Selection
Does the Player wish to be deleted?
FALSE
TRUE
Client sends to AppServer (GameID, Player initials, full remove (true or false), entryButton) In Vector
Client Repaints GUI
APPSERVER
AppServer receives delete command
AppServer calls SQL to Database
SQL Statement complete
DATABASE
Database finds selected record
Does the fullRemove = TRUE?
TRUE
FALSE
Database runs SQL to find addition entries of Players Initials
Database writes results to history table
Database deletes all entry matches
Database writes results to history table
Database deletes selected entry
Database records transaction
Database queries rows where Player initials column has no value
Do any rows exist where Players initials have no value?
TRUE
FALSE
Database re-sorts rows based on Players initials having value
Return SQL delete successful
Return SQL Statement complete to AppServer

FIG. 42

FIG. 43


LIST MANAGER - INSERT PLAYER
Supervisor
Database
INSERT PLAYER
AppServer
Client
Player
Clerk
USE CASE

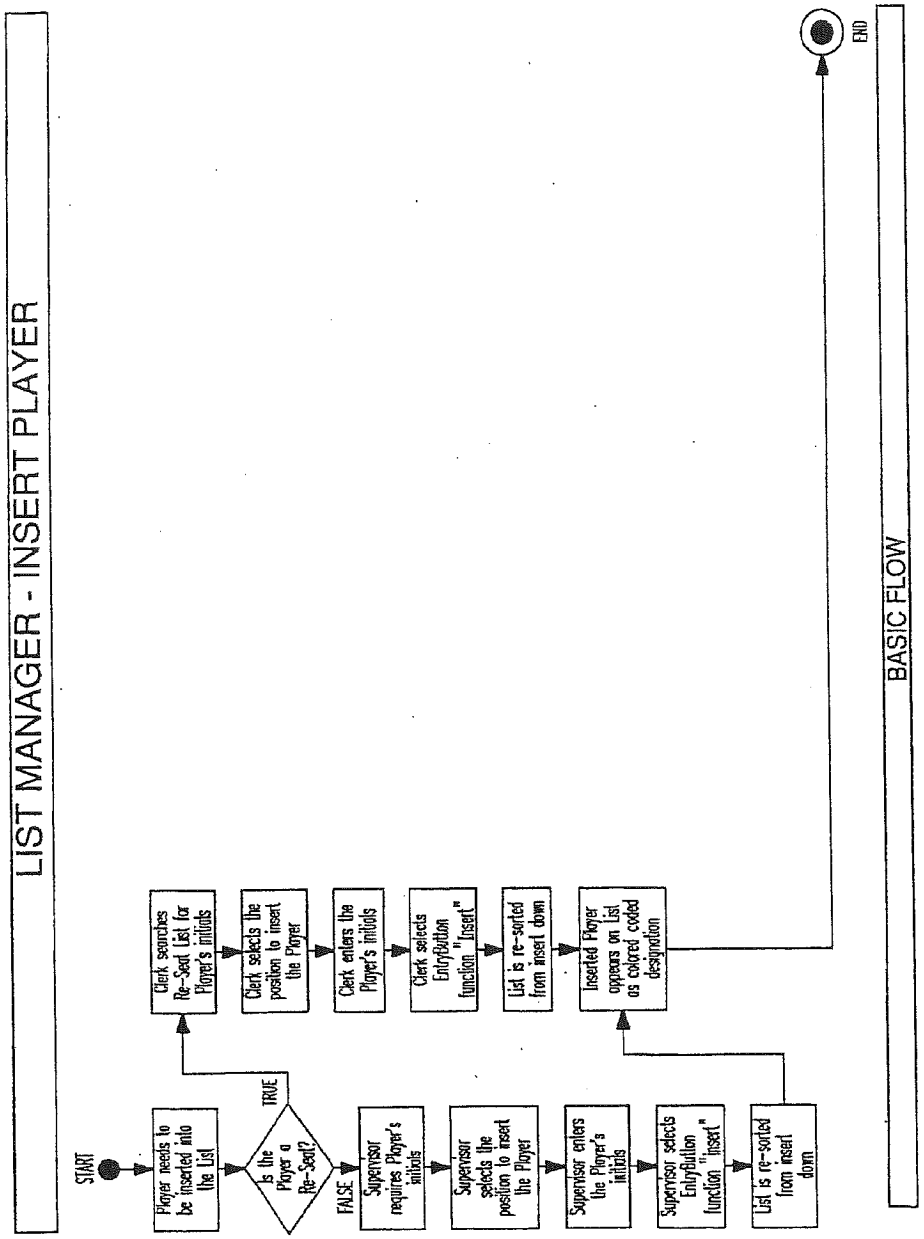

LIST MANAGER - INSERT PLAYER
START
Player needs to be inserted into the List
Is the Player a Re-Seat?
TRUE
FALSE
Clerk searches Re-Seat List for Player's initials
Clerk selects the position to insert the Player
Clerk enters the Player's initials
Clerk selects Entry/Button function "Insert"
List is re-sorted from insert down
Supervisor requires Player's initials
Supervisor selects the position to insert the Player
Supervisor enters the Player's initials
Supervisor selects Entry/Button function "Insert"
List is re-sorted from insert down
Inserted Player appears on List as colored coded designation
END
BASIC FLOW

FIG. 44

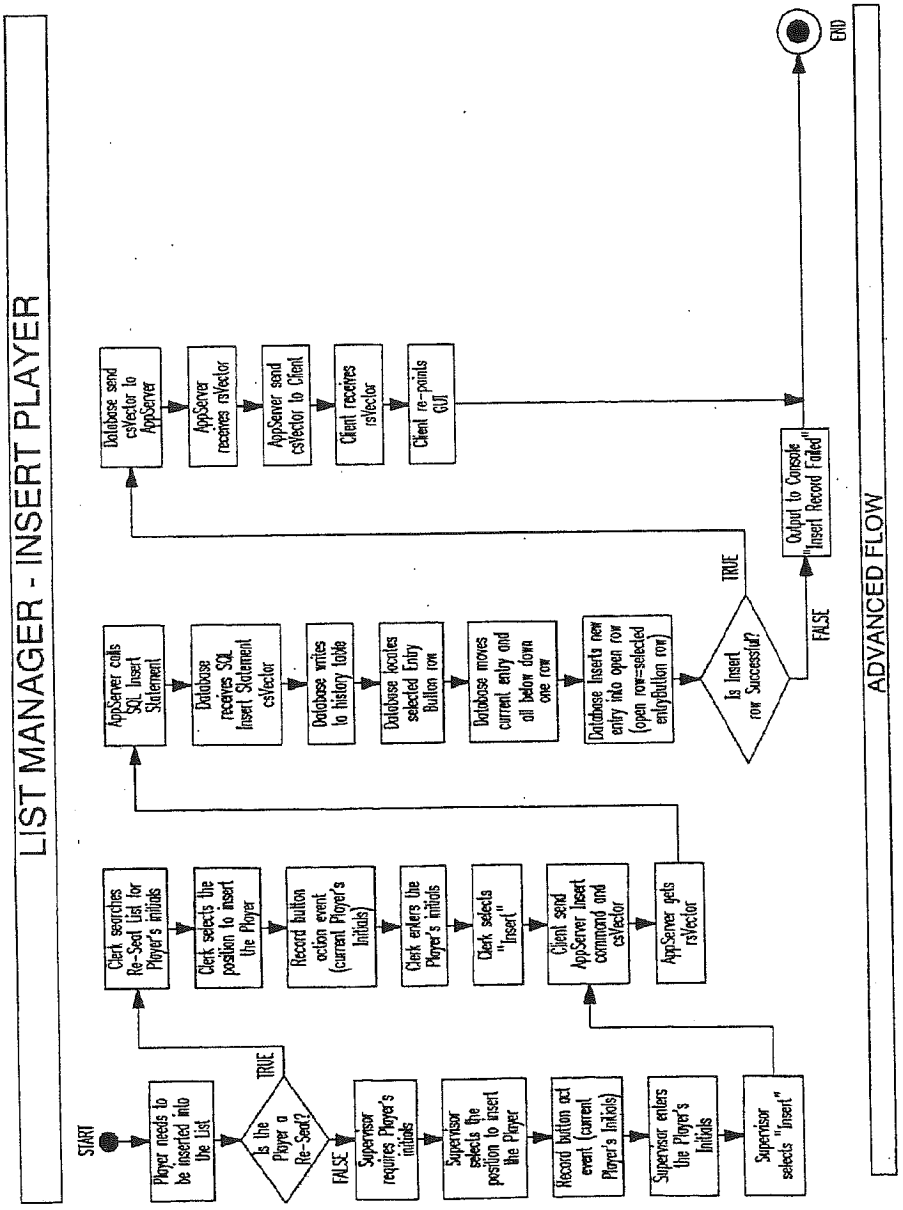

LIST MANAGER - INSERT PLAYER
ADVANCED FLOW
START
END
Player needs to be inserted into the List
Is the Player a Re-Seat?
TRUE
FALSE
Supervisor requires Player's initials
Supervisor selects the position to insert the Player
Record button act event (current Player's Initials)
Supervisor enters the Player's Initials
Supervisor selects "Insert"
Clerk searches Re-Seat List for Player's initials
Clerk selects the position to insert the Player
Record button action event (current Player's Initials)
Clerk enters the Player's initials
Clerk selects "Insert"
Client send AppServer Insert command and csVector
AppServer gets rsVector
AppServer calls SQL Insert Statement
Database receives SQL Insert Statement csVector
Database writes to history table
Database locates selected Entry Button row
Database moves current entry and all below down one row
Database inserts new entry into open row (open row=selected entryButton row)
Is Insert row Successful?
TRUE
FALSE
Output to Console "Insert Record Failed"
Database send csVector to AppServer
AppServer receives csVector
AppServer send csVector to Client
Client receives rsVector
Client re-paints GUI

FIG. 45

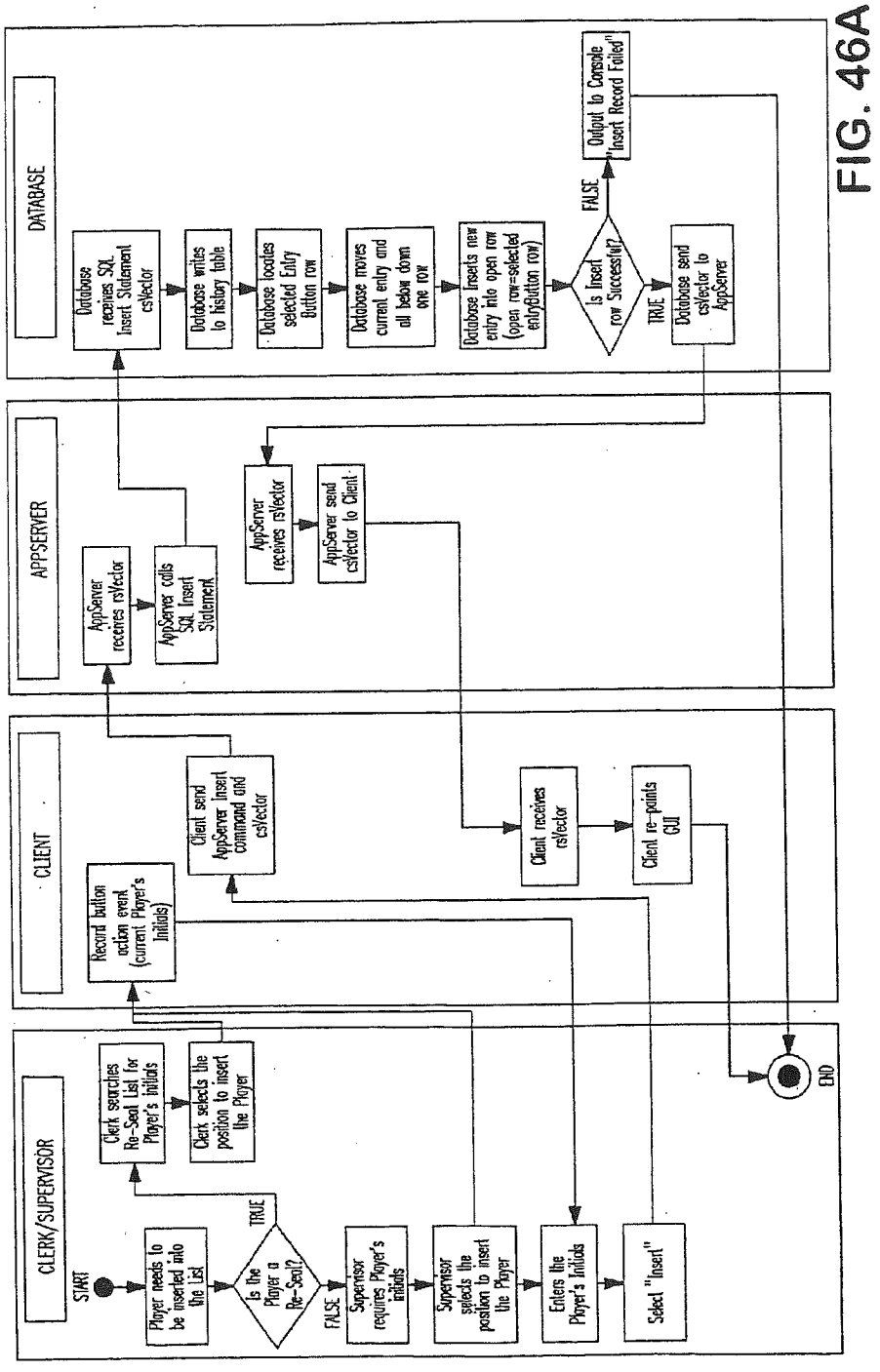

DATABASE
Database receives SQL Insert Statement csVector
Database writes to history table
Database locates selected Entry button row
Database moves current entry and all below down one row
Database inserts new entry into open row (open row=selected entry/button row)
Is Insert row Successful?
FALSE
TRUE
Output to Console "Insert Record Failed"
Database send csVector to AppServer
APPSERVER
AppServer receives rsVector
AppServer calls SQL Insert Statement
AppServer receives rsVector
AppServer send csVector to Client
CLIENT
Record button action event (current Player's Initials)
Client send AppServer Insert command and csVector
Client receives rsVector
Client re-paints GUI
CLERK/SUPERVISOR
START
Player needs to be inserted into the List
Is the Player a Re-Seat?
TRUE
FALSE
Clerk searches Re-Seat List for Player's initials
Clerk selects the position to insert the Player
Supervisor requires Player's initials
Supervisor selects the position to insert the Player
Enters the Player's Initials
Select "Insert"
END

FIG. 46A

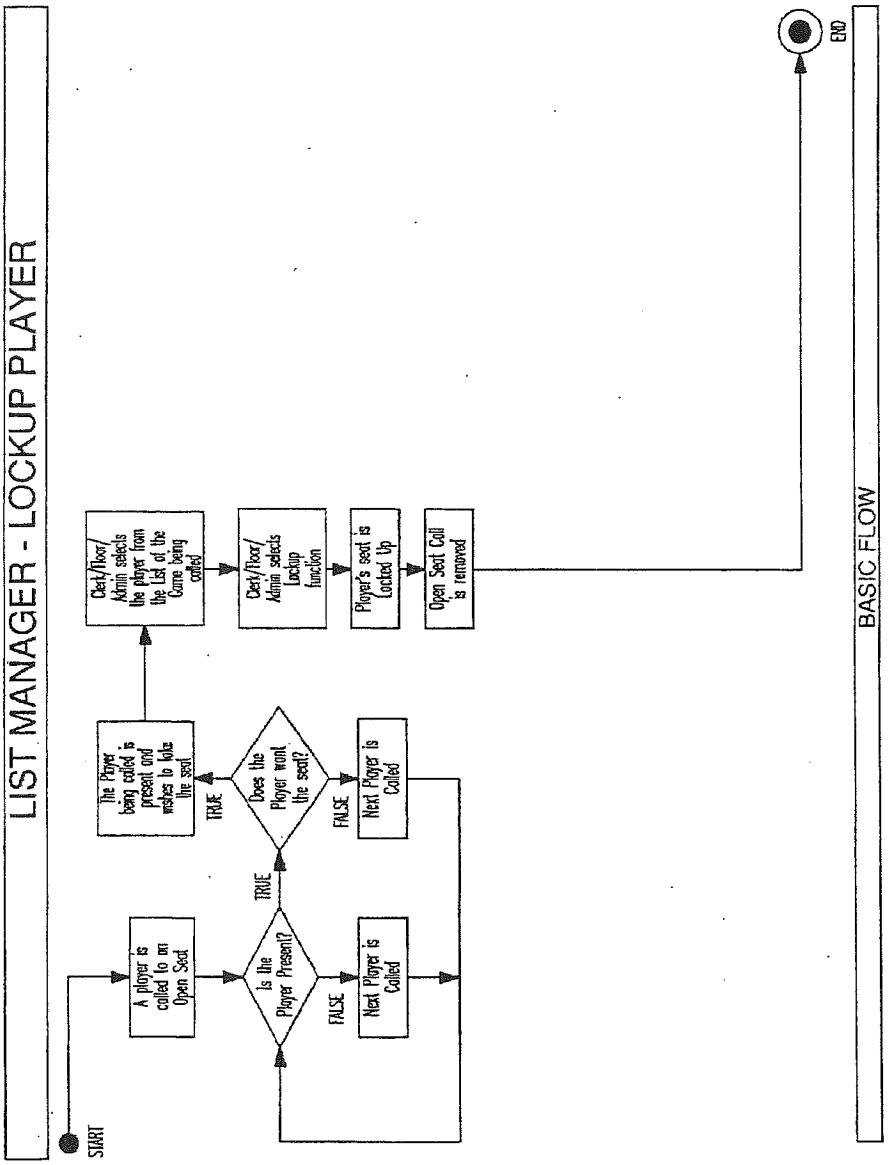

LIST MANAGER - LOCKUP PLAYER
START
A player is called to an Open Seat
Is the Player Present?
FALSE
Next Player is Called
TRUE
Does the Player want the seat?
FALSE
Next Player is Called
TRUE
The Player being called is present and wishes to take the seat
Clerk/Floor/ Admin selects the player from the List of the Game being called
Clerk/Floor/ Admin selects Lockup function
Player's seat is Locked Up
Open Seat Call is removed
END
BASIC FLOW

FIG. 46B

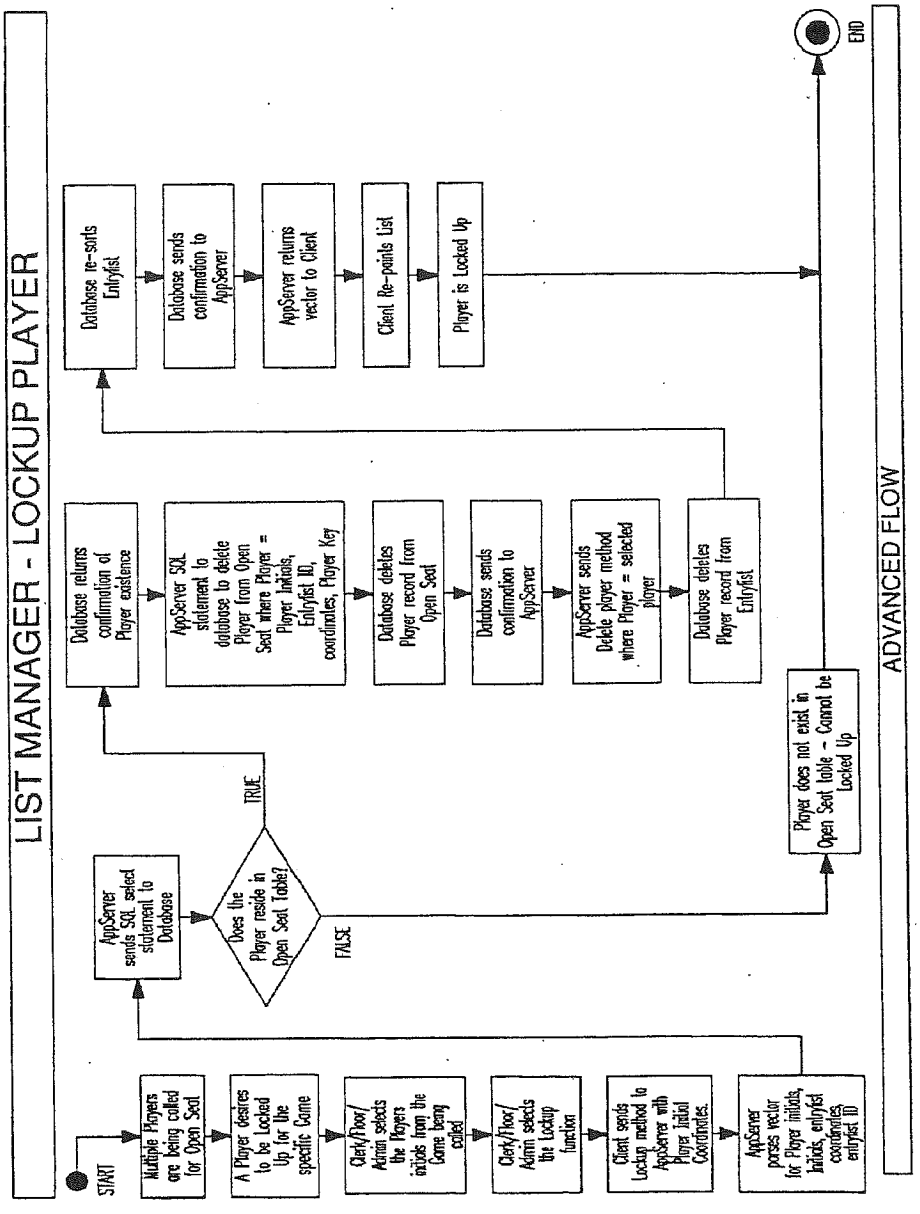

LIST MANAGER - LOCKUP PLAYER
START
Multiple Players are being called for Open Seat
A Player desires to be Locked Up for the specific Game
Clerk/Floor/ Admin selects the Players initials from the Game being called
Clerk/Floor/ Admin selects the Lockup function
Client sends Lockup method to AppServer with Player Initial Coordinates.
AppServer parses vector for Player initials, Initials, entryfist coordinates, entryfist ID
AppServer sends SQL select statement to Database
Does the Player reside in Open Seat Table?
TRUE
FALSE
Database returns confirmation of Player existence
AppServer SQL statement to database to delete Player from Open Seat where Player = Player Initials, Entryfist ID, coordinates, Player Key
Database deletes Player record from Open Seat
Database sends confirmation to AppServer
AppServer sends Delete player method where Player = selected player
Database deletes Player record from Entryfist
Player does not exist in Open Seat Table - Cannot be Locked Up
Database re-sorts Entryfist
Database sends confirmation to AppServer
AppServer returns vector to Client
Client Re-paints List
Player is Locked Up
END
ADVANCED FLOW

FIG. 46C

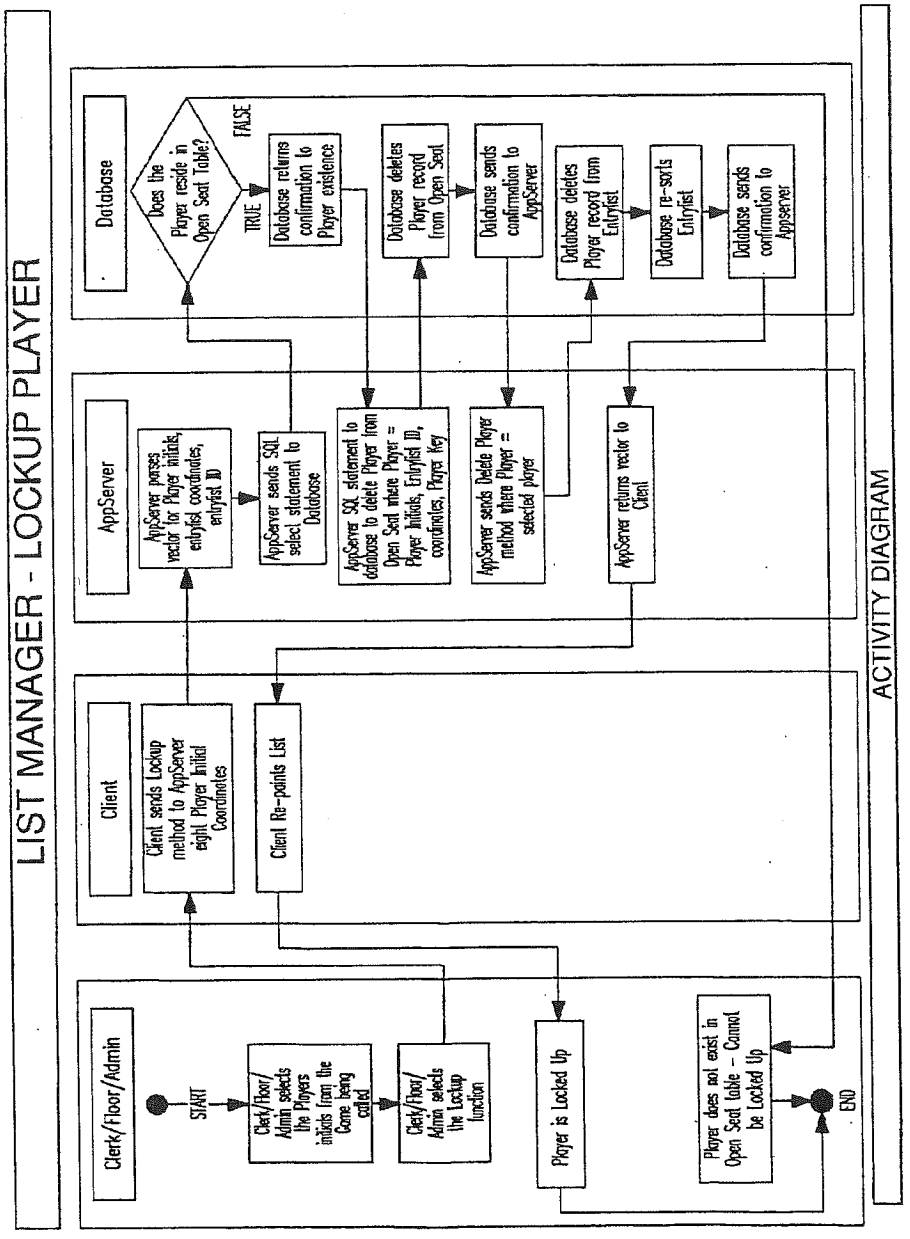

LIST MANAGER - LOCKUP PLAYER
ACTIVITY DIAGRAM
Clerk/Floor/Admin
START
Clerk/Floor/Admin selects the Players initials from the Game being called
Clerk/Floor/Admin selects the Lockup function
Player is Locked Up
Player does not exist in Open Seat table - Cannot be Locked Up
END
Client
Client sends Lockup method to AppServer with Player Initial Coordinates
Client Re-paints List
AppServer
AppServer parses vector for Player initials, entrylist coordinates, entrylist ID
AppServer sends SQL select statement to Database
AppServer SQL statement to database to delete Player from Open Seat where Player = Player Initials, Entrylist ID, coordinates, Player Key
AppServer sends Delete Player method where Player = selected player
AppServer returns vector to Client
Database
Does the Player reside in Open Seat Table?
FALSE
TRUE
Database returns confirmation to Player existence
Database deletes Player record from Open Seat
Database sends confirmation to AppServer
Database deletes Player record from Entrylist
Database re-sorts Entrylist
Database sends confirmation to Appserver

FIG. 46D

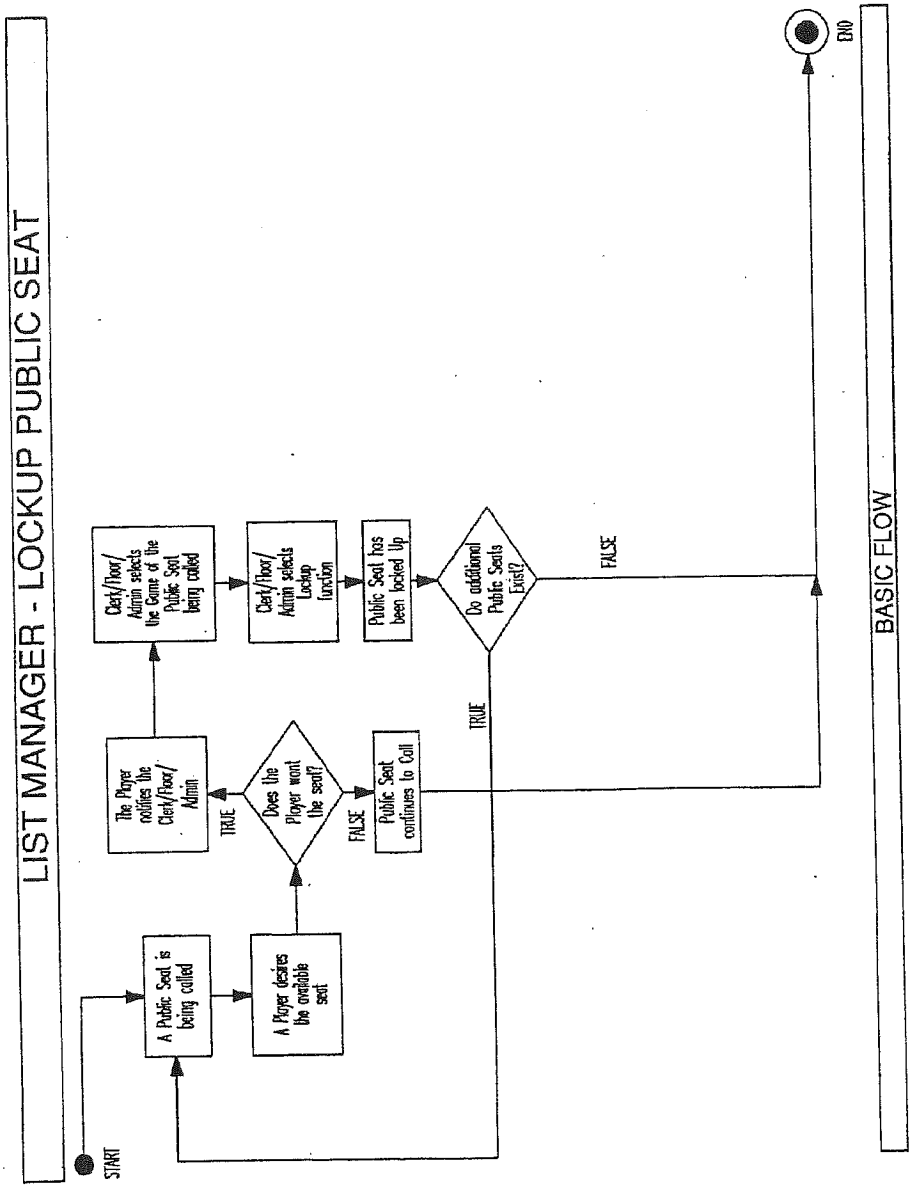

LIST MANAGER - LOCKUP PUBLIC SEAT
START
A Public Seat is being called
A Player desires the available seat
Does the Player want the seat?
TRUE
FALSE
The Player notifies the Clerk/Floor/ Admin
Public Seat continues to Call
Clerk/Floor/ Admin selects the Game of the Public Seat being called
Clerk/Floor/ Admin selects Lockup function
Public Seat has been locked up
Do additional Public Seats Exist?
TRUE
FALSE
END
BASIC FLOW

FIG. 46E

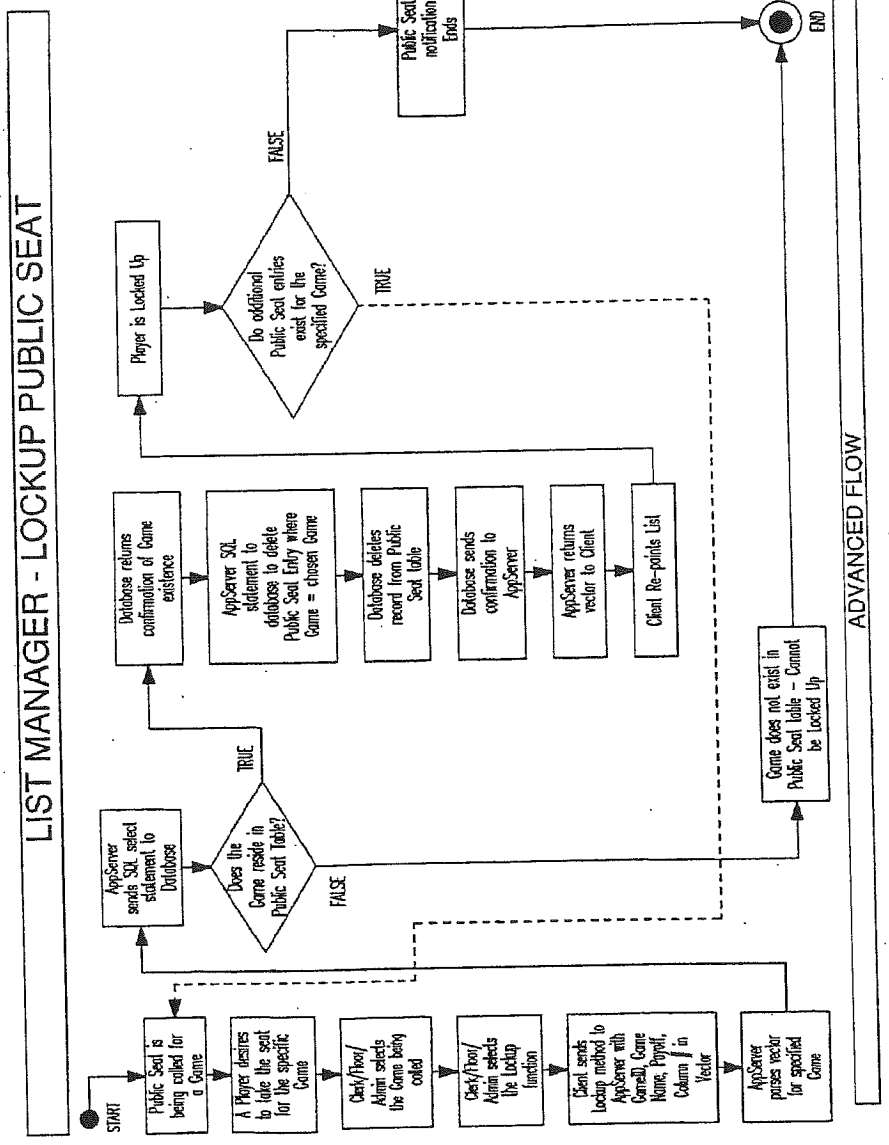

LIST MANAGER - LOCKUP PUBLIC SEAT
ADVANCED FLOW
START
Public Seat is being called for a Game
A Player desires to take the seat for the specific Game
Clerk/Floor/Admin selects the Game being called
Clerk/Floor/Admin selects the Lockup function
Client sends Lockup method to AppServer with Game(), Game Name, Payoff, Column # in Vector
AppServer passes vector for specified Game
AppServer sends SQL select statement to Database
Does the Game reside in Public Seat Table?
TRUE
FALSE
Database returns confirmation of Game existence
AppServer SQL statement to database to delete Public Seat Entry where Game = chosen Game
Database deletes record from Public Seat table
Database sends confirmation to AppServer
AppServer returns vector to Client
Client Re-points List
Game does not exist in Public Seat table - Cannot be Locked Up
Player is Locked Up
Do additional Public Seat entries exist for the specified Game?
TRUE
FALSE
Public Seat notification Ends
END

FIG. 46F

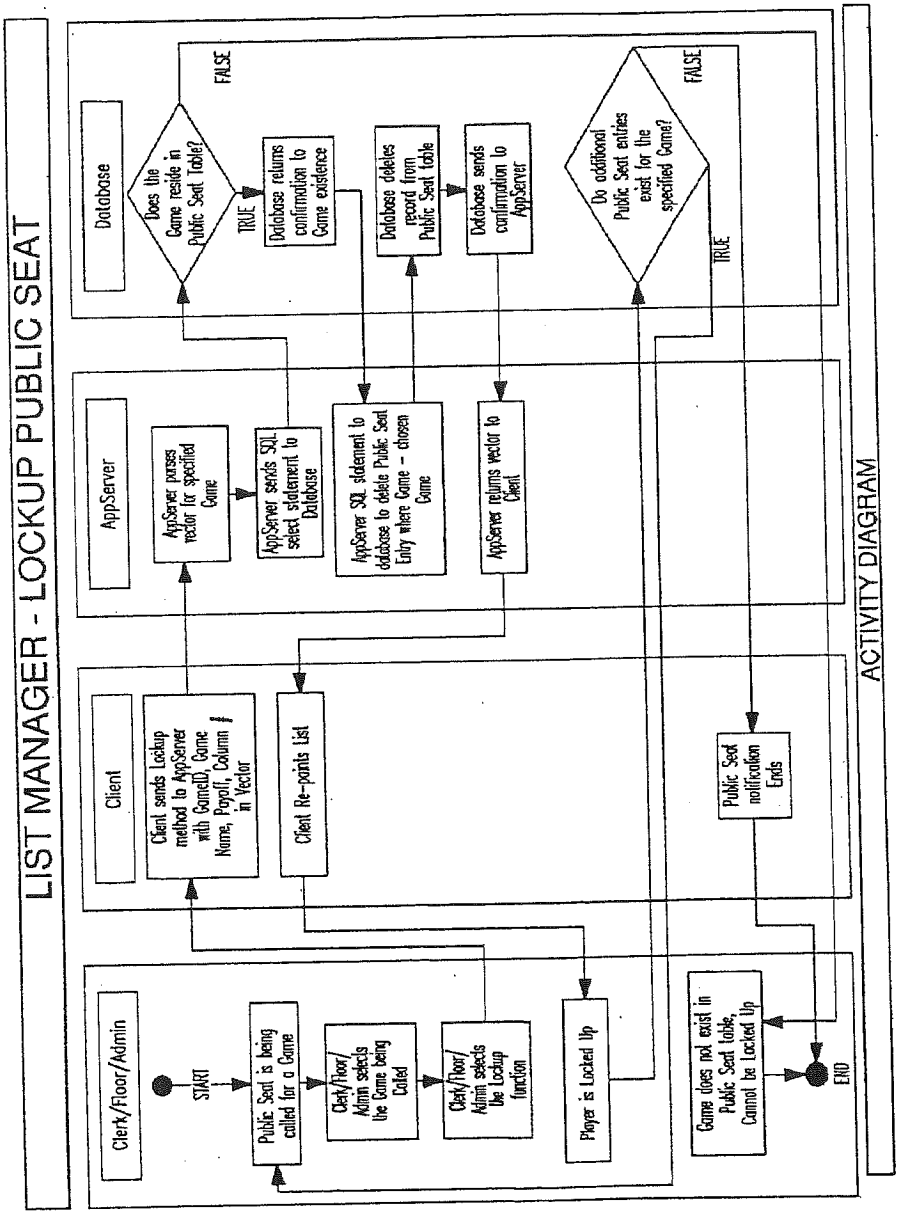

LIST MANAGER - LOCKUP PUBLIC SEAT
ACTIVITY DIAGRAM
Clerk/Floor/Admin
Client
AppServer
Database
START
Public Seat is being called for a Game
Clerk/Floor/ Admin selects the Game being Called
Clerk/Floor/ Admin selects the Lockup function
Client sends Lockup method to AppServer with GameID, Game Name, Payoff, Column # in Vector
AppServer parses vector for specified Game
AppServer sends SQL select statement to Database
Does the Game reside in Public Seat Table?
FALSE
TRUE
Database returns confirmation to Game existence
AppServer SQL statement to database to delete Public Seat Entry where Game = chosen Game
Database deletes record from Public Seat table
Database sends confirmation to AppServer
AppServer returns vector to Client
Client Re-paints List
Player is Locked Up
Do additional Public Seat entries exist for the specified Game?
FALSE
TRUE
Public Seat notification Ends
Game does not exist in Public Seat table, Cannot be Locked Up
END

FIG. 46G

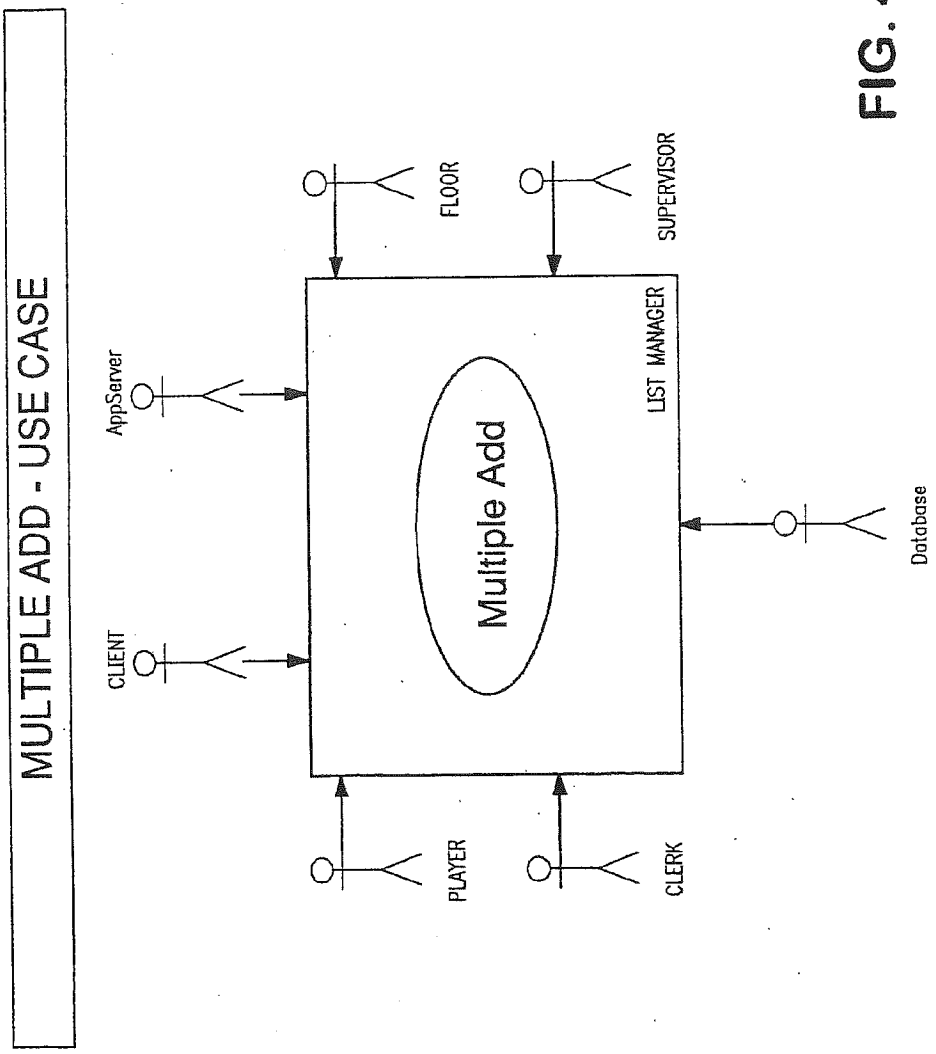

MULTIPLE ADD - USE CASE
AppServer
CLIENT
FLOOR
SUPERVISOR
LIST MANAGER
Multiple Add
Database
PLAYER
CLERK

FIG. 47

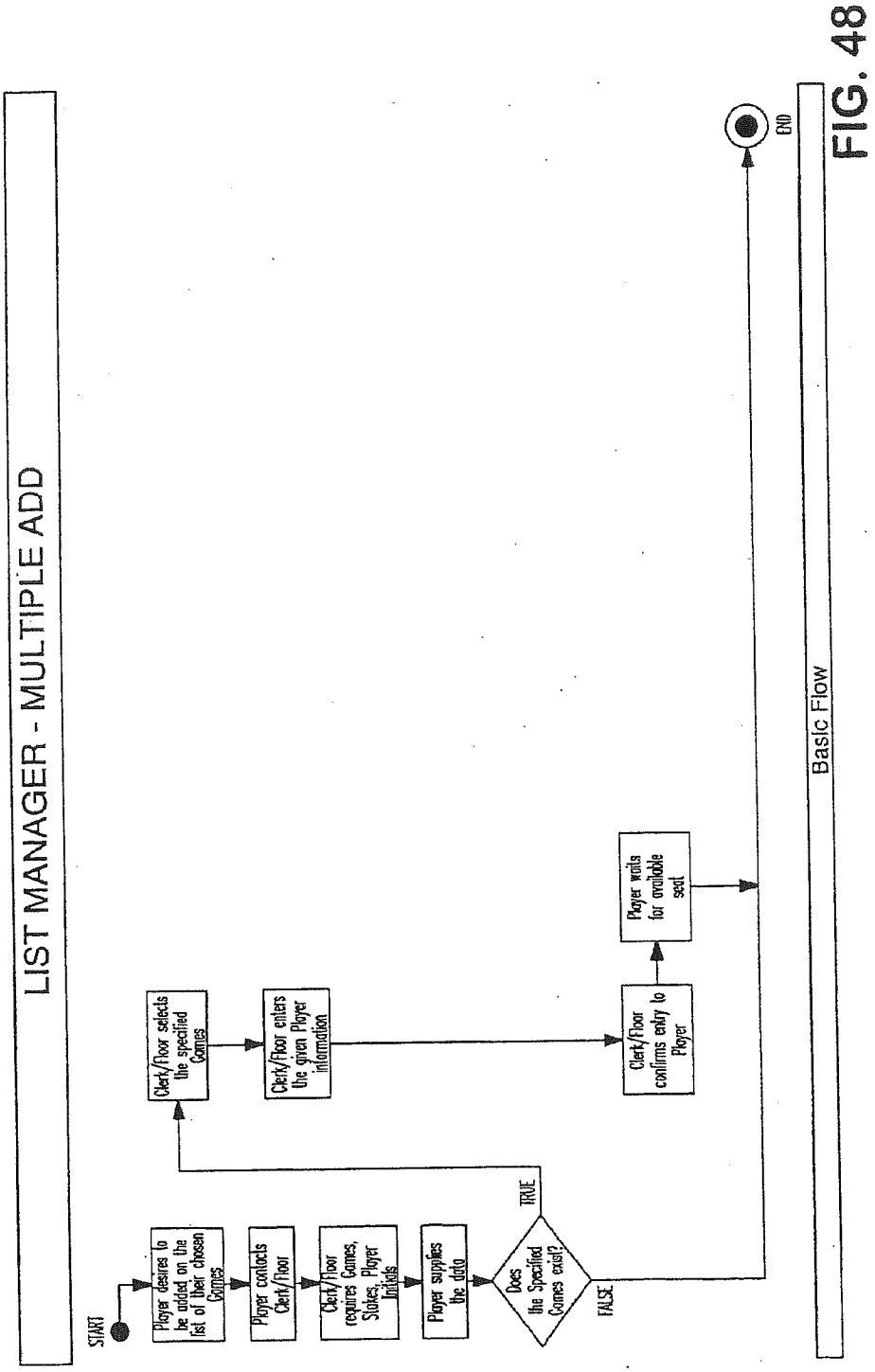

LIST MANAGER - MULTIPLE ADD
START
Player desires to be added on the list of their chosen Games
Player contacts Clerk/Floor
Clerk/Floor requires Games, Player Initials
Player supplies the data
Does the Specified Games exist?
TRUE
FALSE
Clerk/Floor selects the specified Games
Clerk/Floor enters the given Player information
Clerk/Floor confirms entry to Player
Player waits for available seat
END
Basic Flow

FIG. 48

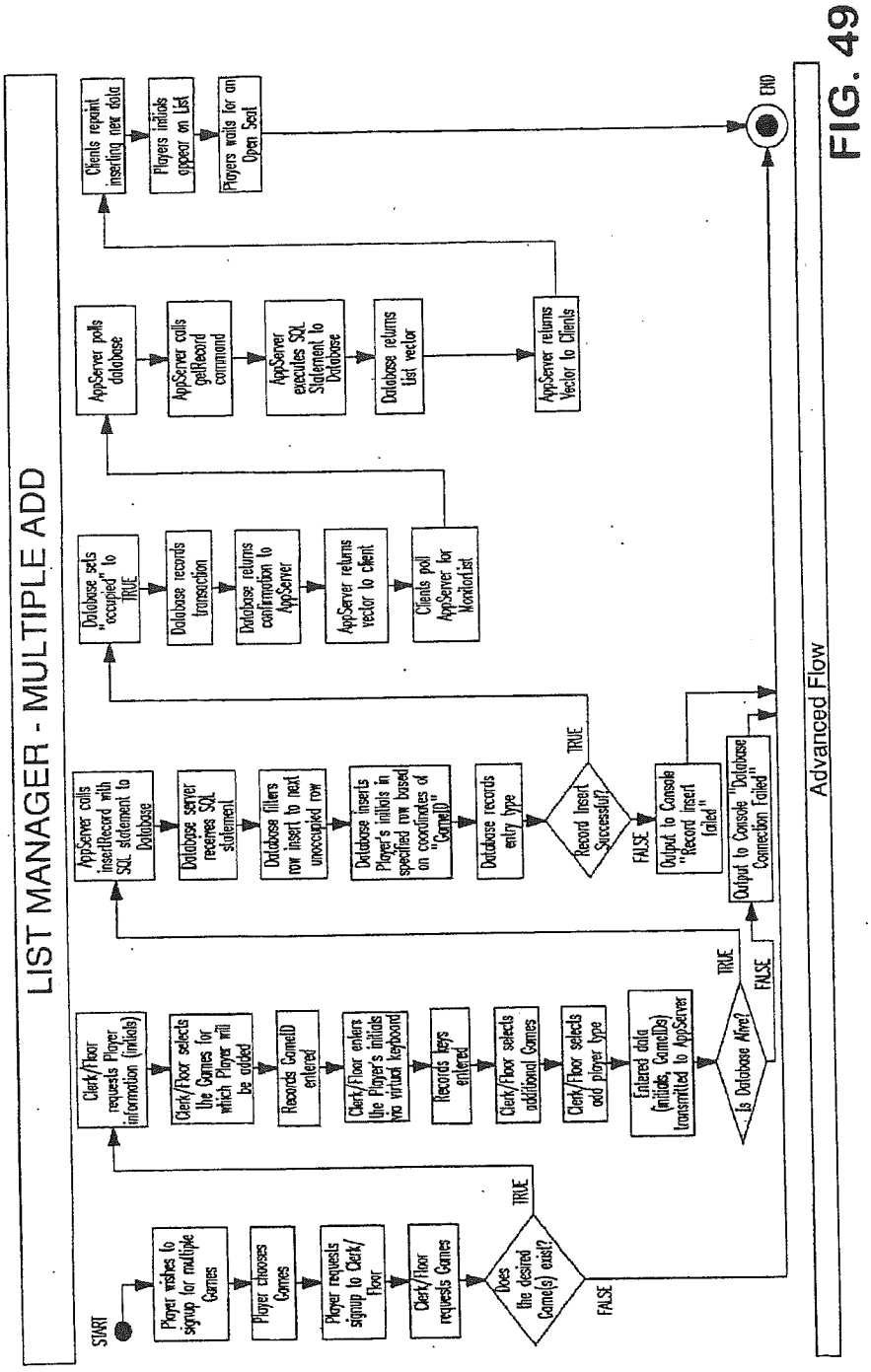
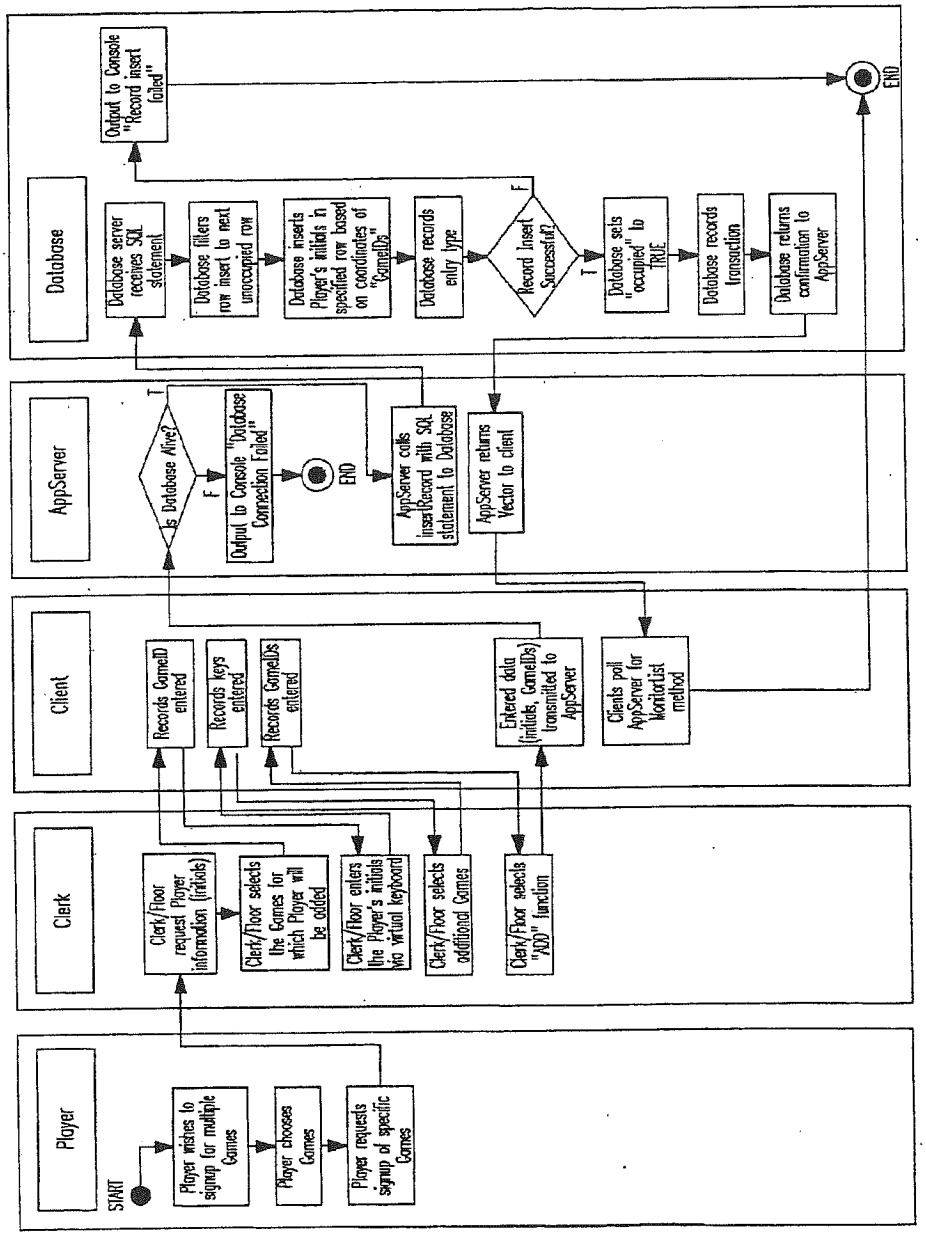

LIST MANAGER - MULTIPLE ADD
START
Player wishes to signup for multiple Games
Player chooses Games
Player requests signup to Clerk/Floor
Clerk/Floor requests Games
Does the desired Game(s) exist?
TRUE
FALSE
Clerk/Floor requests Player information (initials)
Clerk/Floor selects the Games for which Player will be added
Records GameID entered
Clerk/Floor enters the Player's initials via virtual keyboard
Records keys entered
Clerk/Floor selects additional Games
Clerk/Floor selects add player type
Entered data (initials, GameIDs) transmitted to AppServer
Is Database Alive?
TRUE
FALSE
Output to Console "Database Connection Failed"
AppServer calls insertRecord with SQL statement to Database
Database server receives SQL statement
Database filters row insert to next unoccupied row
Database inserts Player's initials in specified row based on coordinates of "GameID"
Database records entry type
Record Insert Successful?
TRUE
FALSE
Output to Console "Record Insert failed"
Database sets "occupied" to TRUE
Database records transaction
Database returns confirmation to AppServer
AppServer returns vector to client
Clients poll AppServer for MonitorList
AppServer polls database
AppServer calls getRecord command
AppServer executes SQL Statement to Database
Database returns List vector
AppServer returns Vector to Clients
Clients repaint inserting new data
Players initials appear on List
Players waits for an Open Seat
END
Advanced Flow

FIG. 49

FIG. 50


Player
Clerk
Client
AppServer
Database
START
Player wishes to signup for multiple Games
Player chooses Games
Player requests signup of specific Games
Clerk/Floor request Player information (initials)
Clerk/Floor selects the Games for which Player will be added
Clerk/Floor enters the Player's initials via virtual keyboard
Clerk/Floor selects additional Games
Clerk/Floor selects "ADD" function
Records GameID entered
Records keys entered
Records GameIDs entered
Entered data (initials, GameIDs) transmitted to AppServer
Clients poll AppServer for WorkforList method
Is Database Alive?
T
F
Output to Console "Database Connection Failed"
END
AppServer calls insertRecord with SQL statement to Database
AppServer returns Vector to client
Database server receives SQL statement
Database filters row insert to next unoccupied row
Database inserts Player's initials in specified row based on coordinates of "GameIDs"
Database records entry type
Record Insert Successful?
Database sets "occupied" to TRUE
Database records transaction
Database returns confirmation to AppServer
Output to Console "Record insert failed"
END

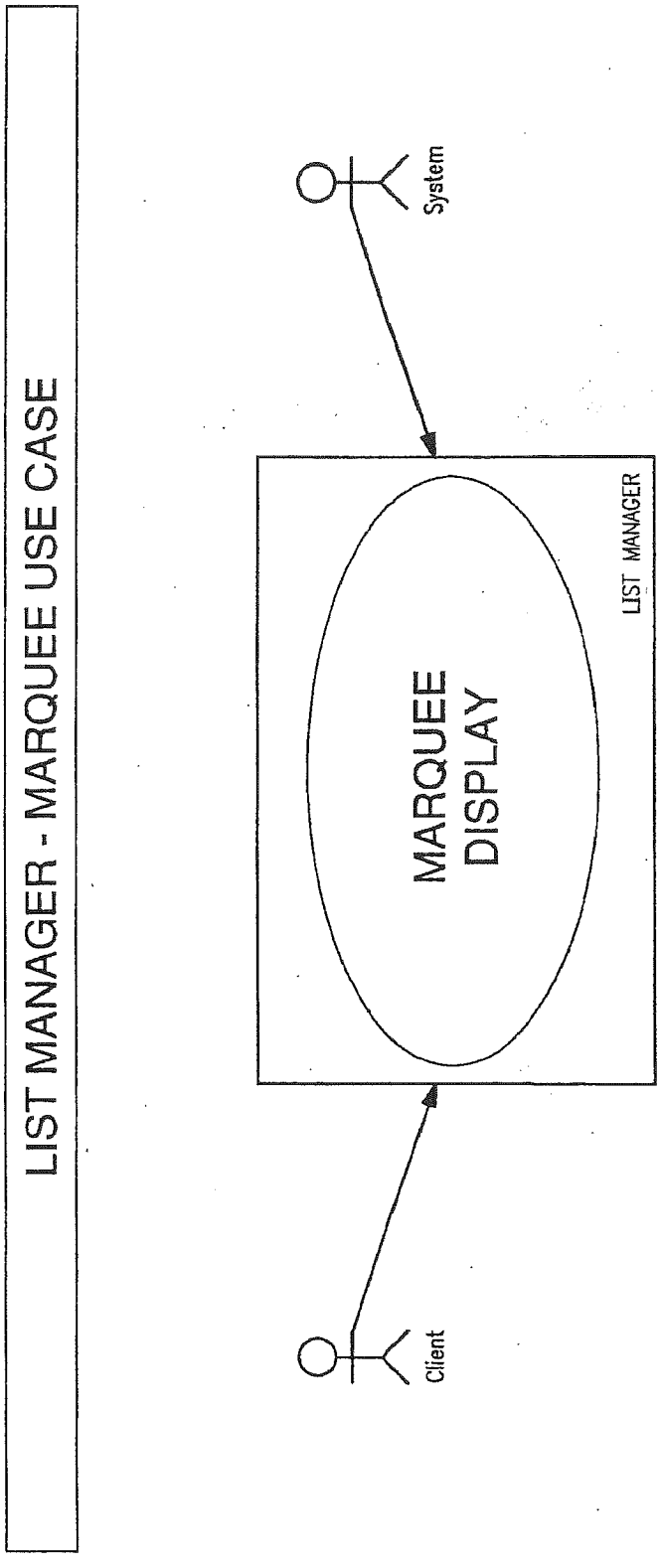

LIST MANAGER - MARQUEE USE CASE
System
LIST MANAGER
MARQUEE DISPLAY
Client

FIG. 51

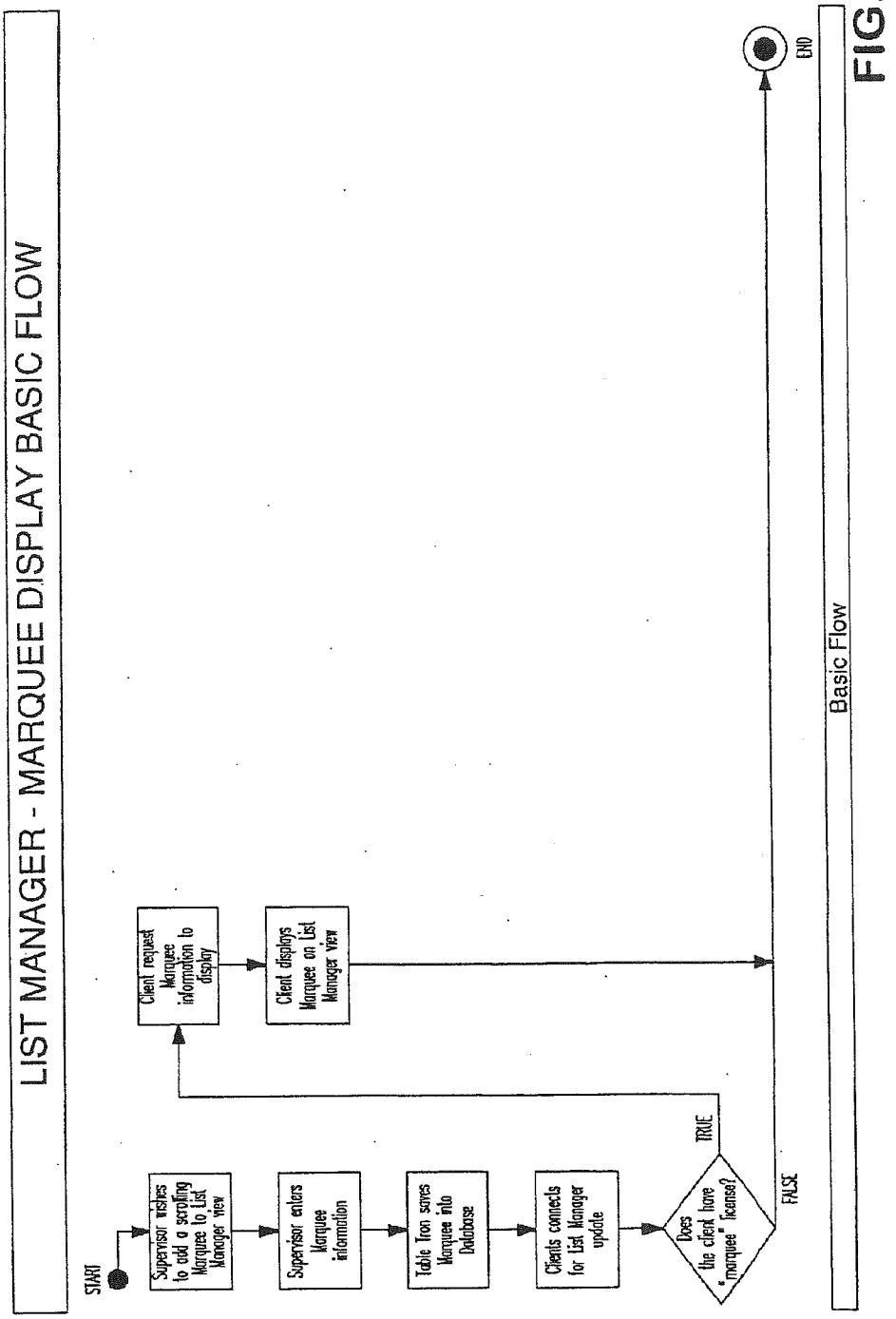

LIST MANAGER - MARQUEE DISPLAY BASIC FLOW
START
Supervisor wishes to add a scrolling Marquee to List Manager view
Supervisor enters Marquee information
Table Iron saves Marquee info Database
Clients connects for List Manager update
Does the client have "marquee" license?
TRUE
FALSE
Client request Marquee information to display
Client displays Marquee on List Manager view
END
Basic Flow

FIG. 52

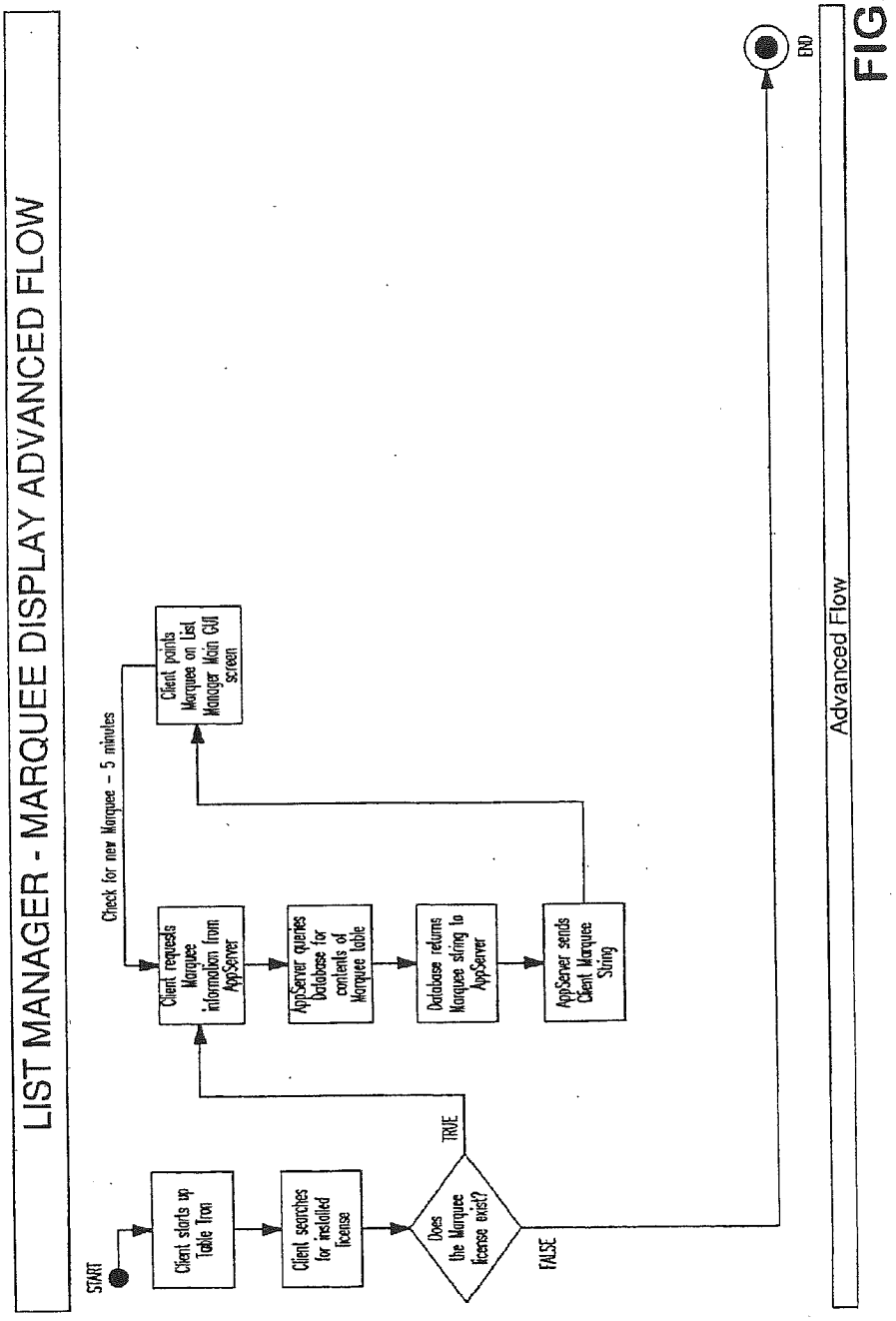

LIST MANAGER - MARQUEE DISPLAY ADVANCED FLOW
START
Client starts up Table Tron
Client searches for installed license
Does the Marquee license exist?
TRUE
FALSE
Client requests Marquee information from AppServer
AppServer queries Database for contents of Marquee table
Database returns Marquees string to AppServer
AppServer sends Client Marquee String
Client points Marquee on List Manager Main GUI screen
Check for new Marquee - 5 minutes
END
Advanced Flow

FIG. 53

FIG. 54

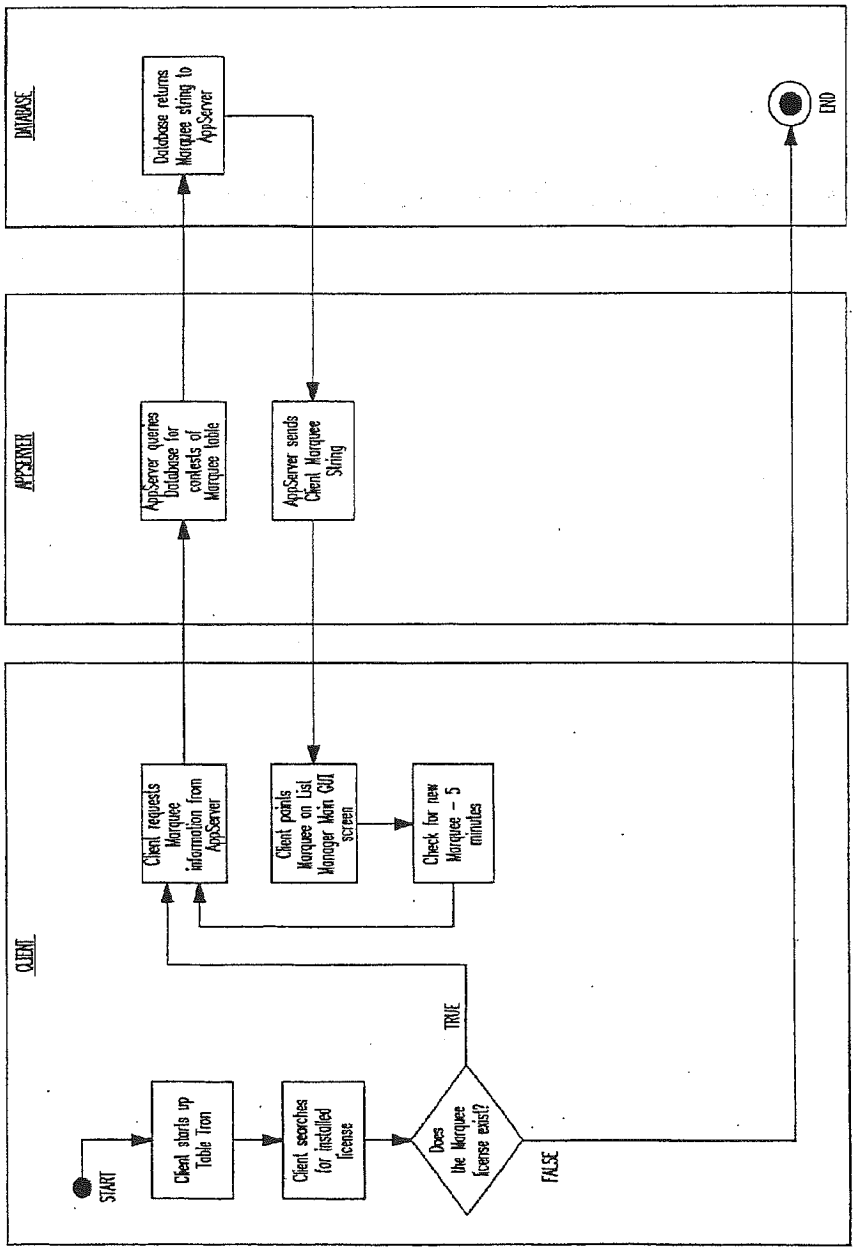
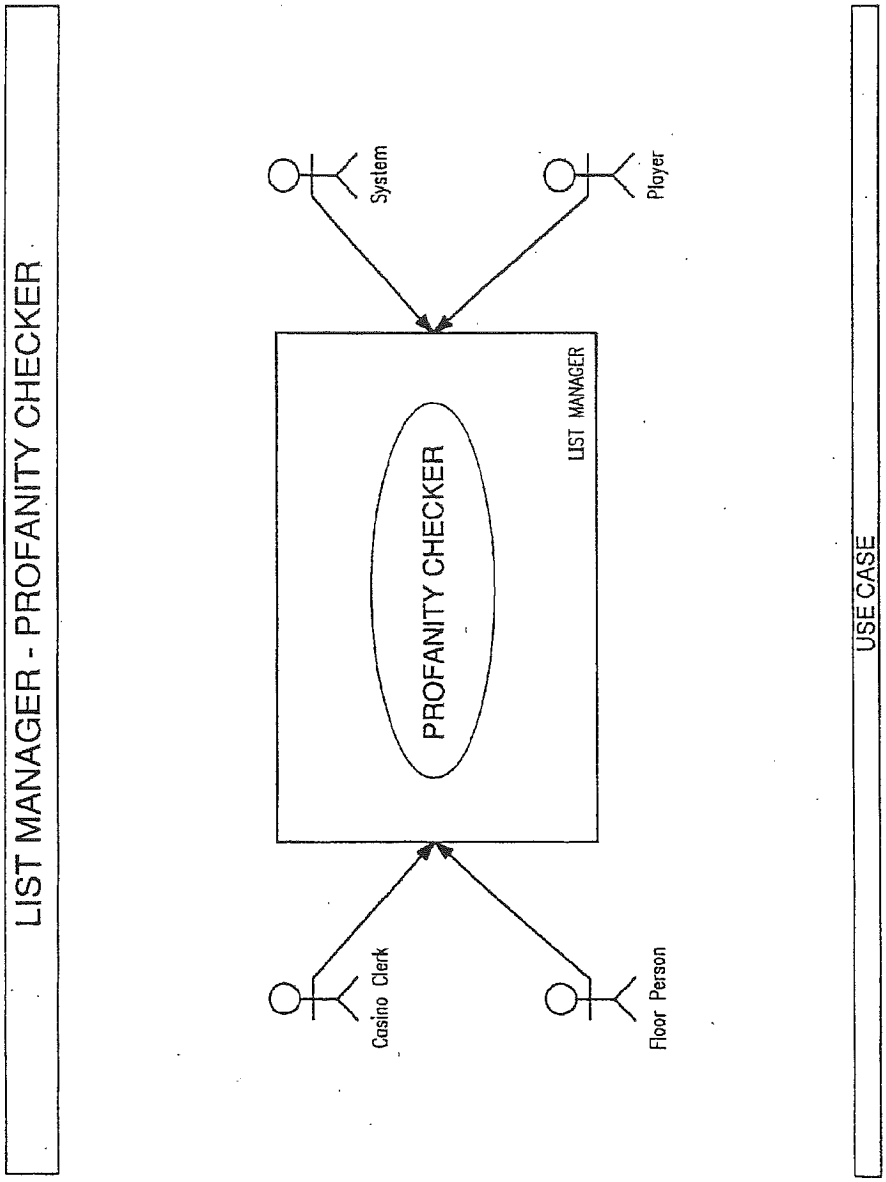

DATABASE
Database returns Marquee string to AppServer
END
APPSERVER
AppServer queries Database for contests of Marquee table
AppServer sends Client Marquee String
CLIENT
Client requests Marquee information from AppServer
Client points Marquee on List Manager Main GUI screen
Check for new Marquee – 5 minutes
TRUE
START
Client starts up Table Tron
Client searches for installed license
Does the Marquee license exist?
FALSE

FIG. 55


LIST MANAGER - PROFANITY CHECKER
System
Player
LIST MANAGER
PROFANITY CHECKER
Casino Clerk
Floor Person
USE CASE

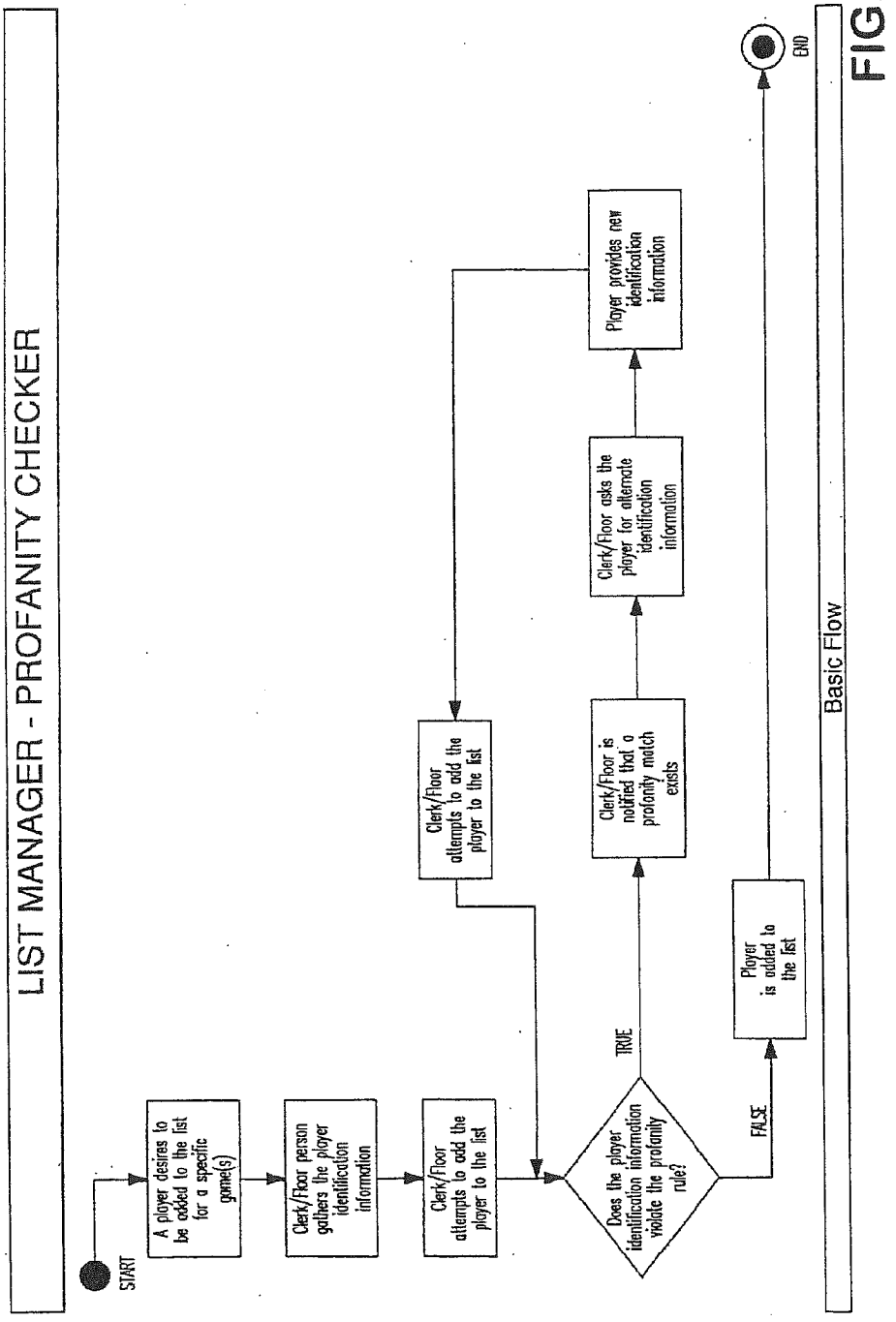

LIST MANAGER - PROFANITY CHECKER
START
A player desires to be added to the list for a specific game(s)
Clerk/Floor person gathers the player identification information
Clerk/Floor attempts to add the player to the list
Does the player identification information violate the profanity rule?
TRUE
FALSE
Clerk/Floor is notified that a profanity match exists
Clerk/Floor asks the player for alternate identification information
Player provides new identification information
Clerk/Floor attempts to add the player to the list
Player is added to the list
END
Basic Flow

FIG. 56

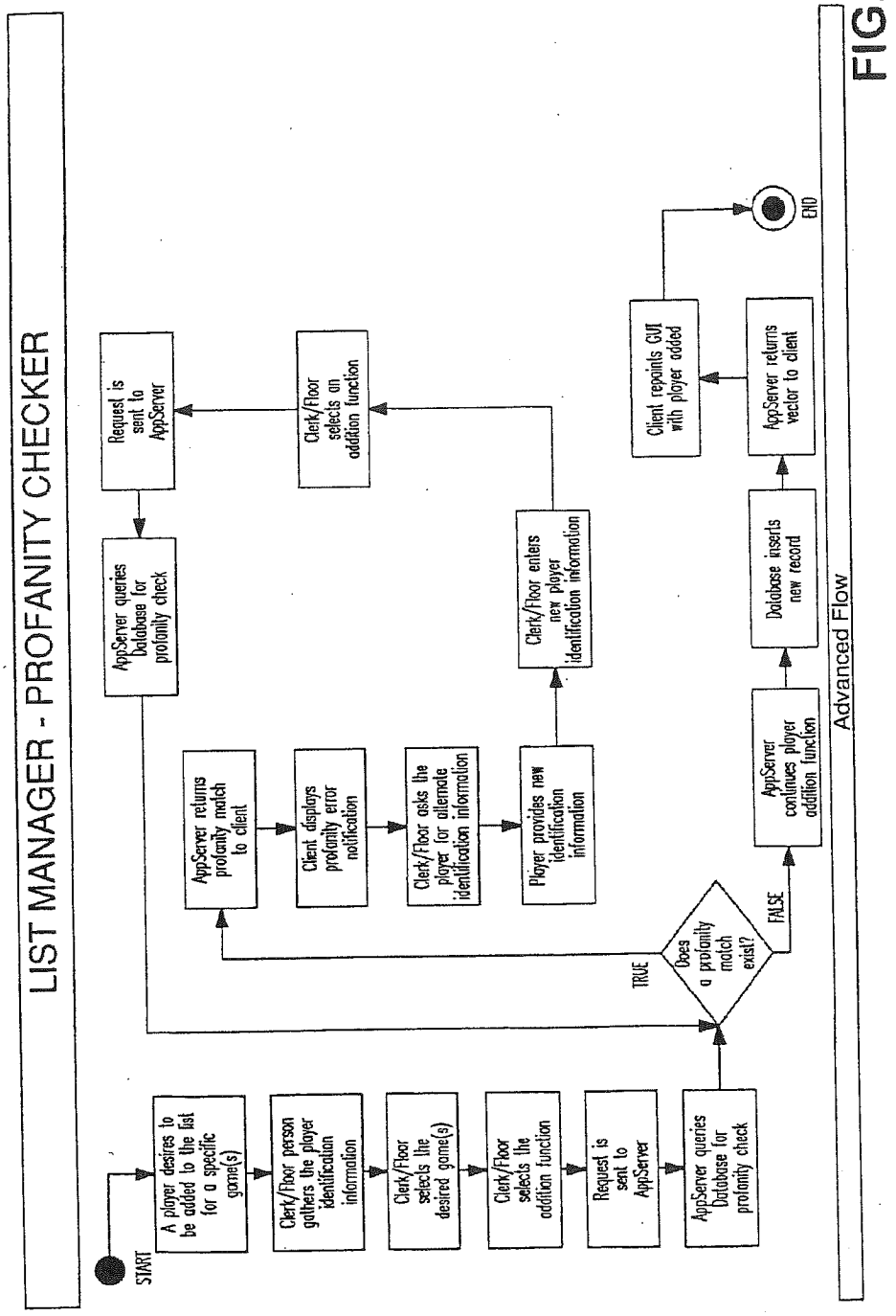

LIST MANAGER - PROFANITY CHECKER
START
A player desires to be added to the list for a specific game(s)
Clerk/Floor person gathers the player identification information
Clerk/Floor selects the desired game(s)
Clerk/Floor selects the addition function
Request is sent to AppServer
AppServer queries Database for profanity check
Does a profanity match exist?
TRUE
FALSE
AppServer returns profanity match to client
Client displays profanity error notification
Clerk/Floor asks the player for alternate identification information
Player provides new identification information
Clerk/Floor enters new player identification information
Request is sent to AppServer
Clerk/Floor selects an addition function
AppServer queries Database for profanity check
AppServer continues player addition function
Database inserts new record
AppServer returns vector to client
Client repaints GUI with player added
END
Advanced Flow

FIG. 57

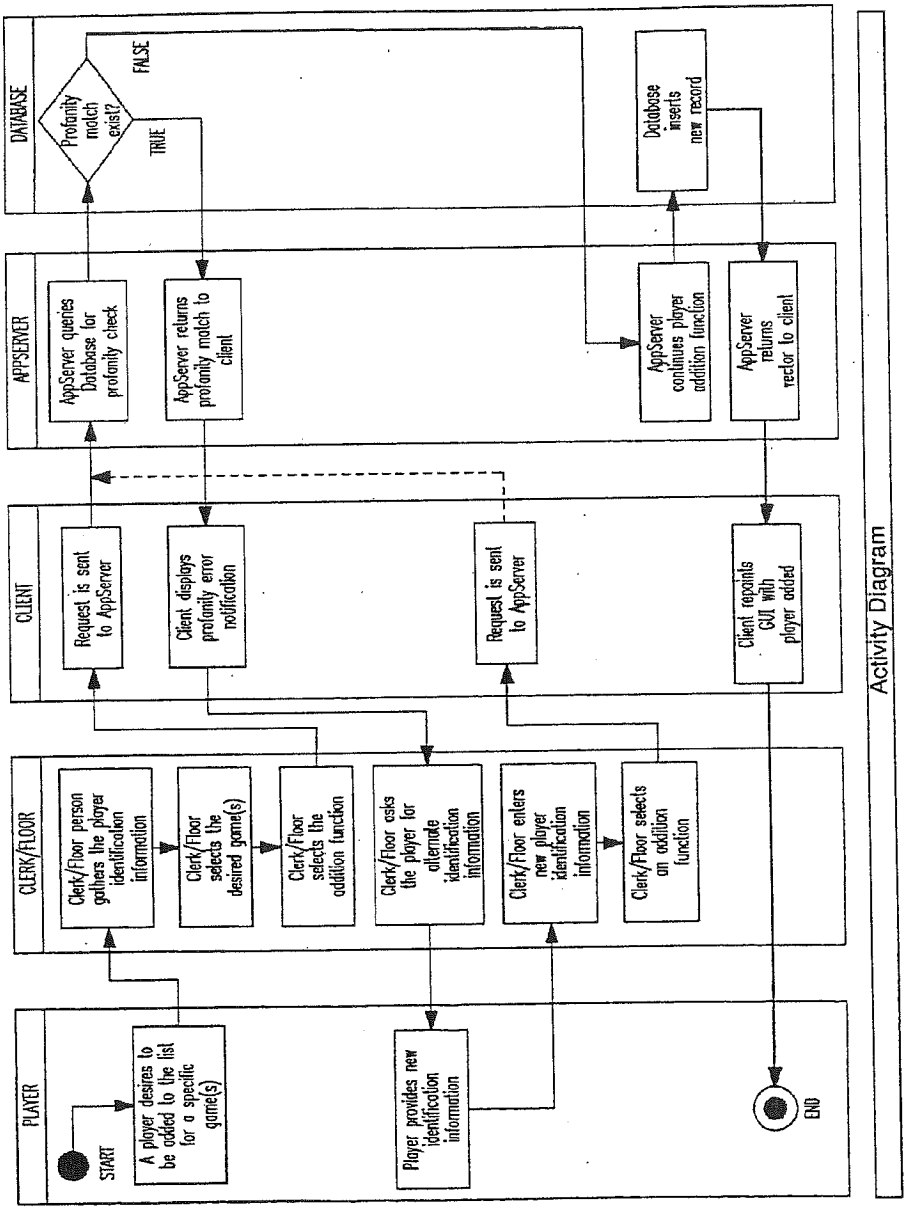
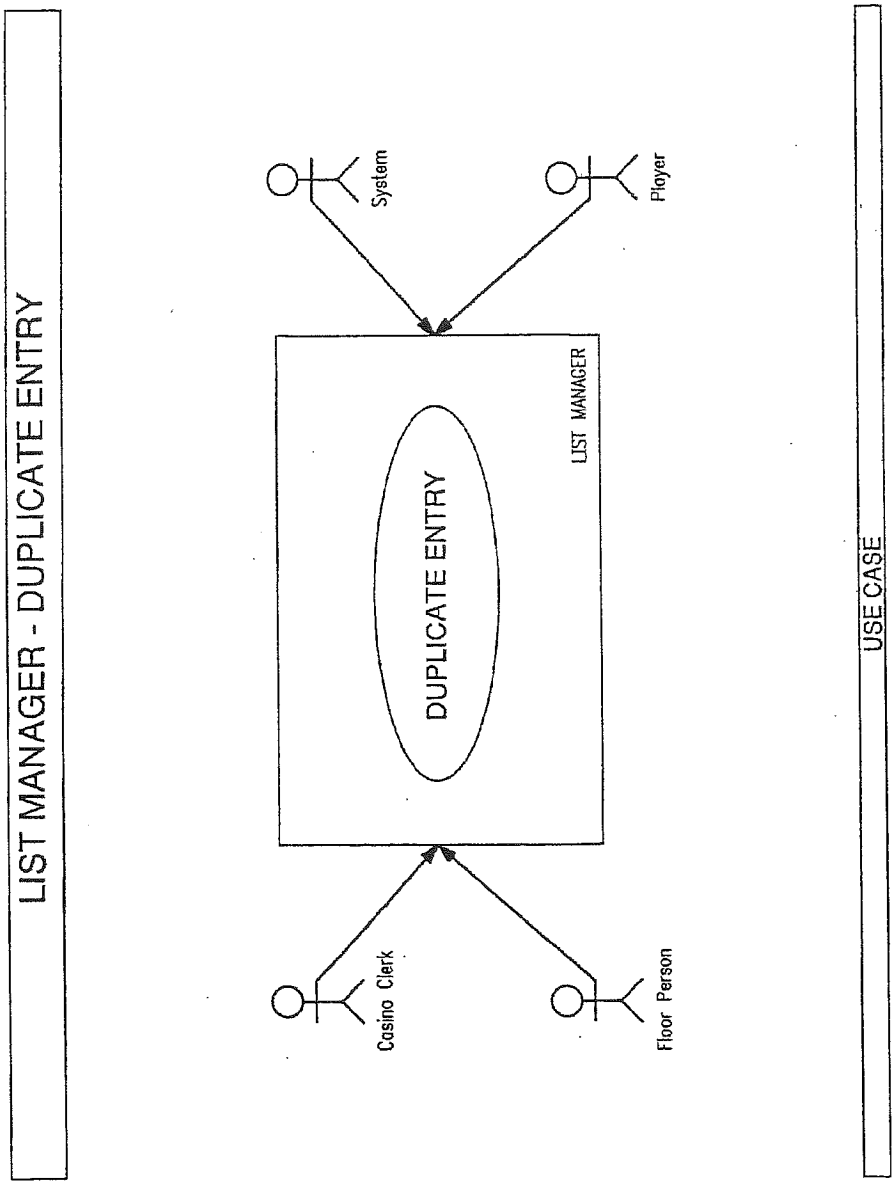

DATABASE
Profanity match exist?
FALSE
TRUE
Database inserts new record
APPSERVER
AppServer queries Database for profanity check
AppServer returns profanity match to client
AppServer continues player addition function
AppServer returns vector to client
CLIENT
Request is sent to AppServer
Client displays profanity error notification
Request is sent to AppServer
Client repaints GUI with player added
CLERK/FLOOR
Clerk/Floor person gathers the player identification information
Clerk/Floor selects the desired game(s)
Clerk/Floor selects the addition function
Clerk/Floor asks the player for alternate identification information
Clerk/Floor enters new player identification information
Clerk/Floor selects an addition function
PLAYER
START
A player desires to be added to the list for a specific game(s)
Player provides new identification information
END
Activity Diagram

FIG. 58

FIG. 59


LIST MANAGER - DUPLICATE ENTRY
System
Player
LIST MANAGER
DUPLICATE ENTRY
Casino Clerk
Floor Person
USE CASE

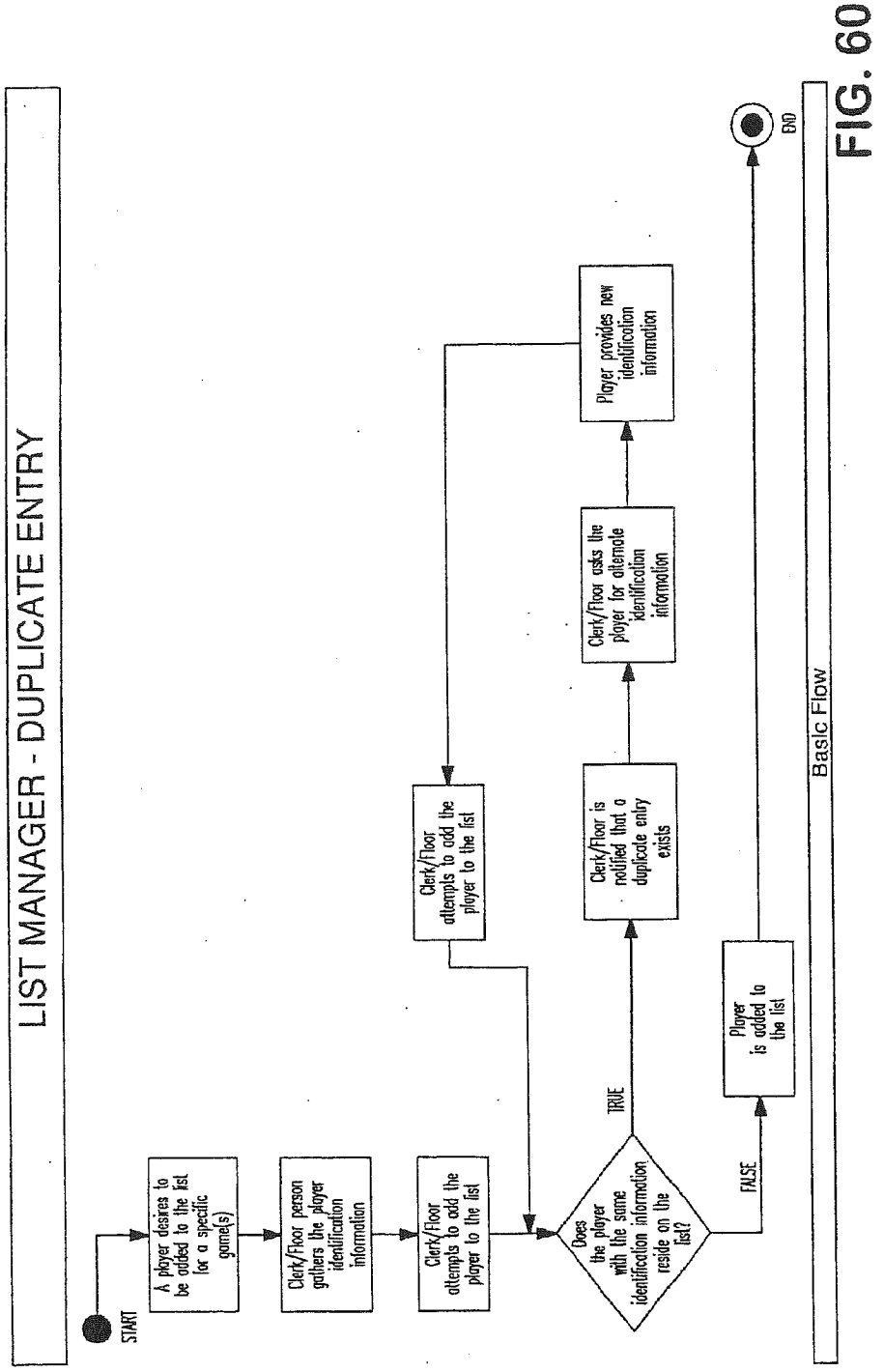

LIST MANAGER - DUPLICATE ENTRY
START
A player desires to be added to the list for a specific game(s)
Clerk/Floor person gathers the player identification information
Clerk/Floor attempts to add the player to the list
Does the player with the same identification information reside on the list?
TRUE
FALSE
Clerk/Floor is notified that a duplicate entry exists
Clerk/Floor asks the player for alternate identification information
Player provides new identification information
Clerk/Floor attempts to add the player to the list
Player is added to the list
END
Basic Flow

FIG. 60

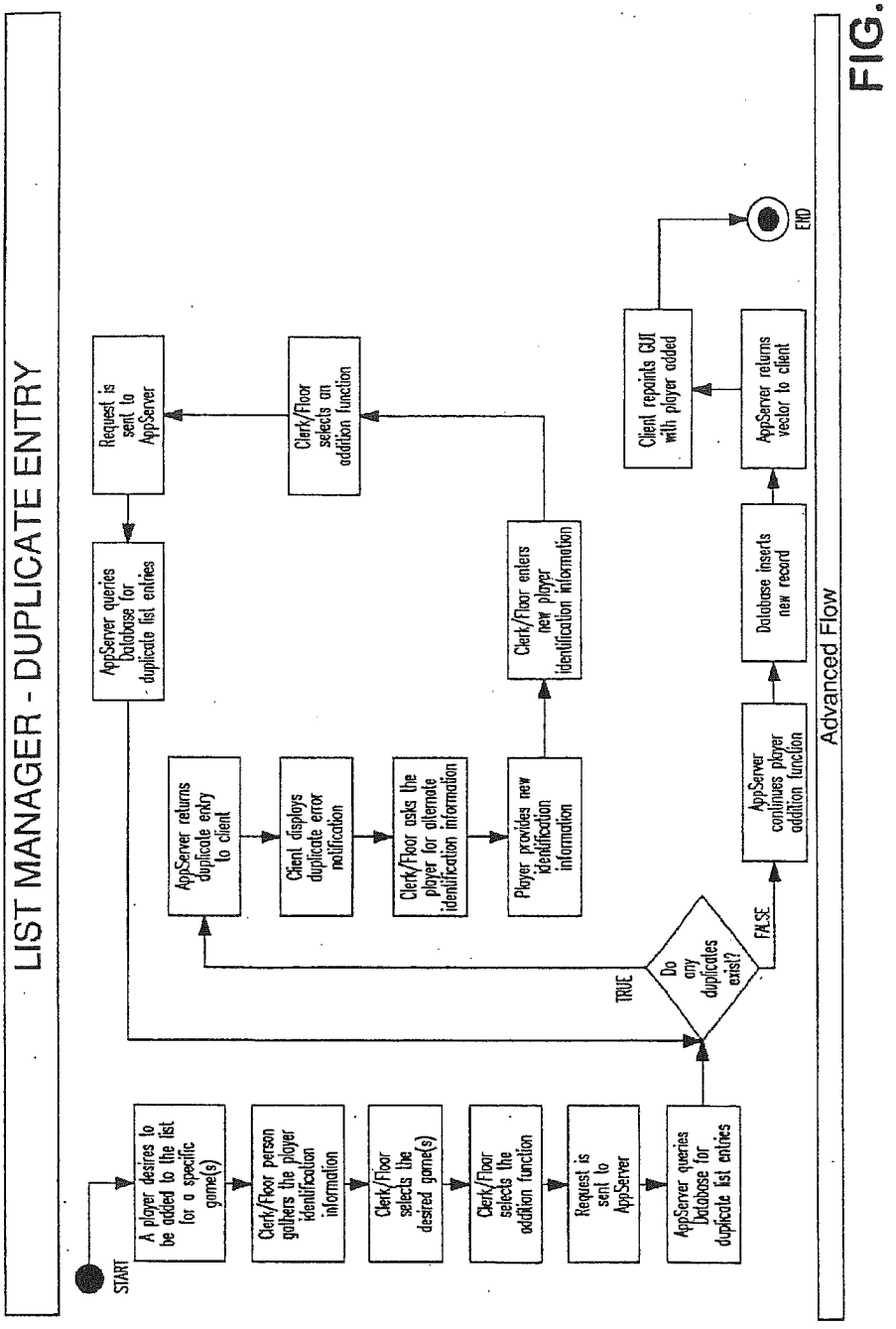

LIST MANAGER - DUPLICATE ENTRY
START
A player desires to be added to the list for a specific game(s)
Clerk/Floor person gathers the player identification information
Clerk/Floor selects the desired game(s)
Clerk/Floor selects the addition function
Request is sent to AppServer
AppServer queries Database for duplicate list entries
Do any duplicates exist?
TRUE
FALSE
AppServer returns duplicate entry to client
Client displays duplicate error notification
Clerk/Floor asks the player for alternate identification information
Player provides new identification information
Clerk/Floor enters new player identification information
AppServer queries Database for duplicate list entries
Request is sent to AppServer
Clerk/Floor selects an addition function
AppServer continues player addition function
Database inserts new record
AppServer returns vector to client
Client repaints GUI with player added
END
Advanced Flow

FIG. 61

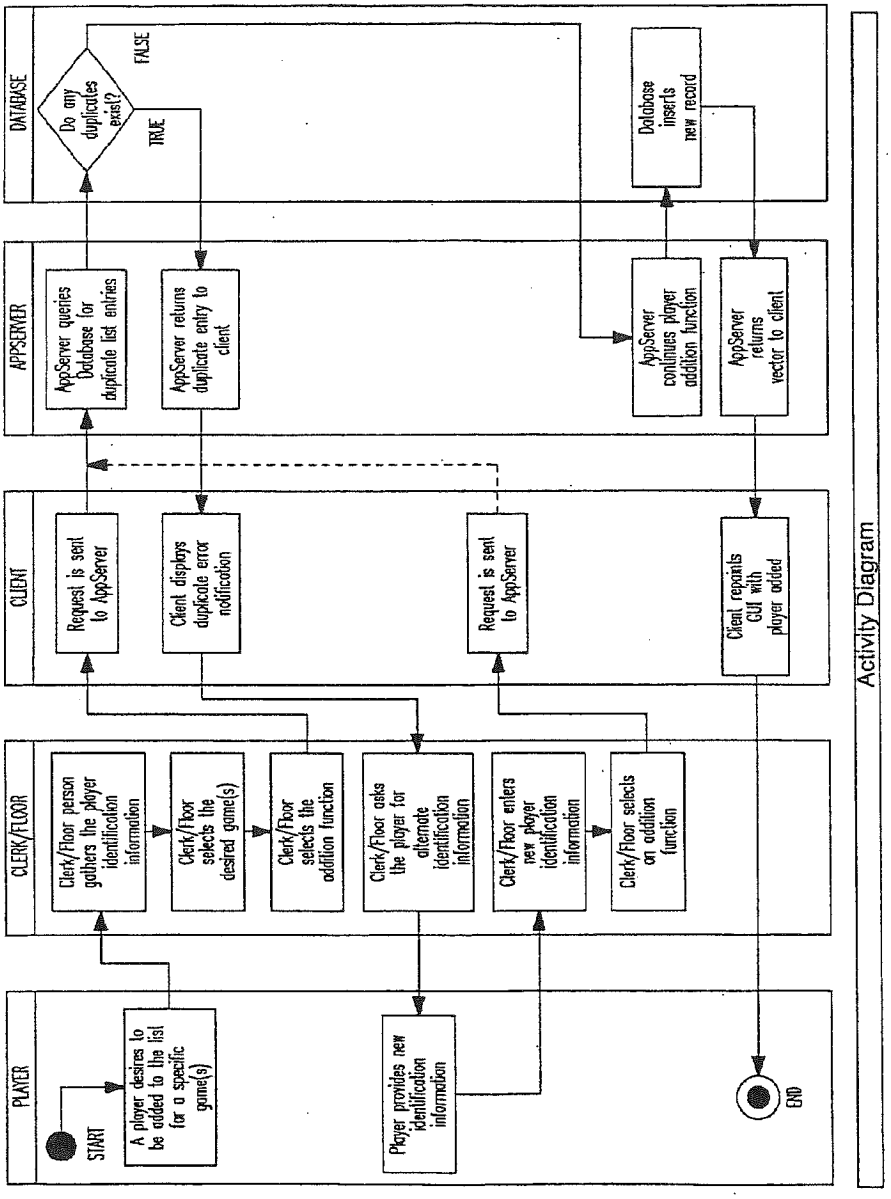
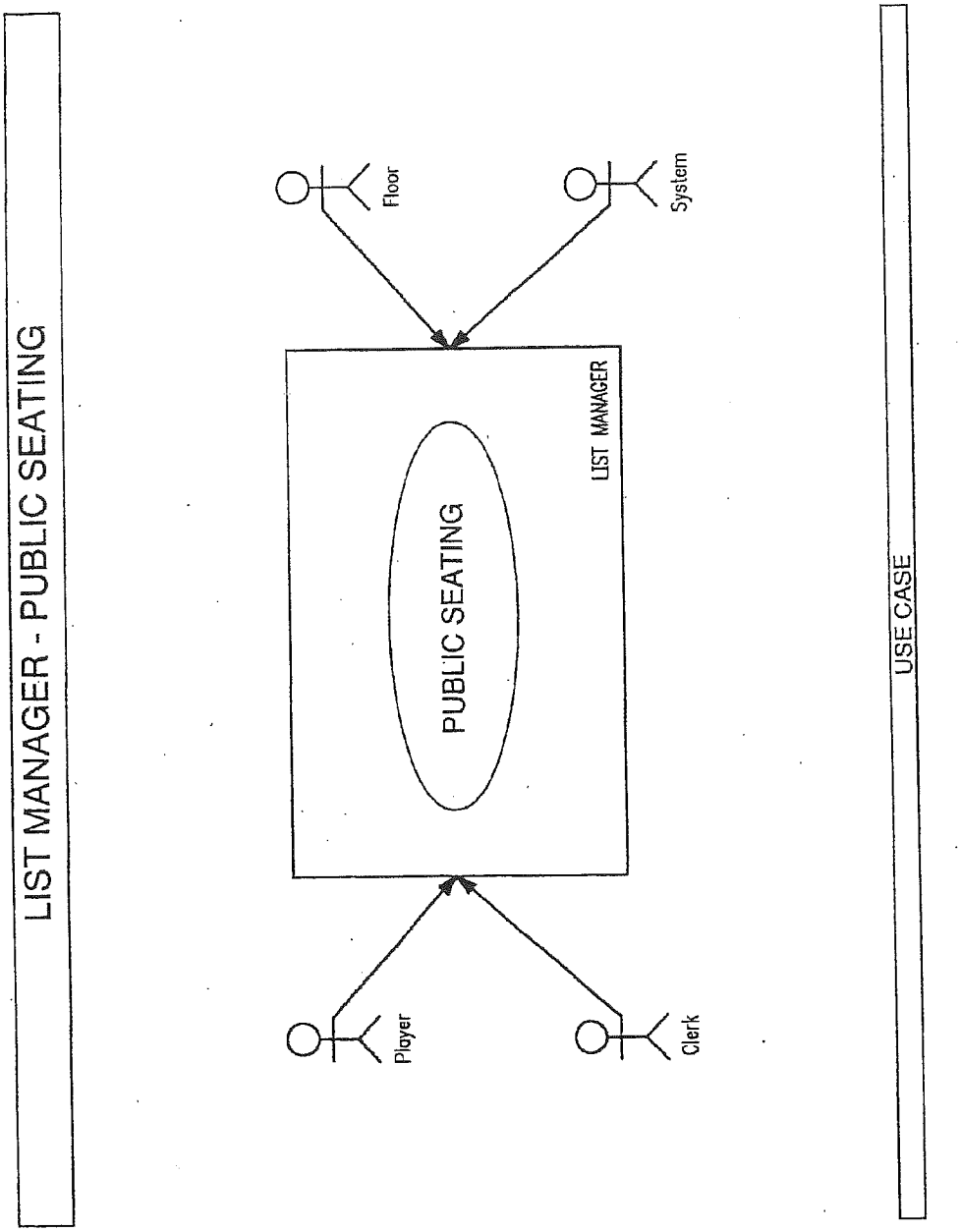

Activity Diagram
PLAYER
START
A player desires to be added to the list for a specific game(s)
Player provides new identification information
END
CLERK/FLOOR
Clerk/Floor person gathers the player identification information
Clerk/Floor selects the desired game(s)
Clerk/Floor selects the addition function
Clerk/Floor asks the player for alternate identification information
Clerk/Floor enters new player identification information
Clerk/Floor selects an addition function
CLIENT
Request is sent to AppServer
Client displays duplicate error notification
Request is sent to AppServer
Client repaints GUI with player added
APPSERVER
AppServer queries Database for duplicate list entries
AppServer returns duplicate entry to client
AppServer continues player addition function
AppServer returns vector to client
DATABASE
Do any duplicates exist?
FALSE
TRUE
Database inserts new record

FIG. 62

FIG. 63


LIST MANAGER - PUBLIC SEATING
Floor
System
LIST MANAGER
PUBLIC SEATING
Player
Clerk
USE CASE

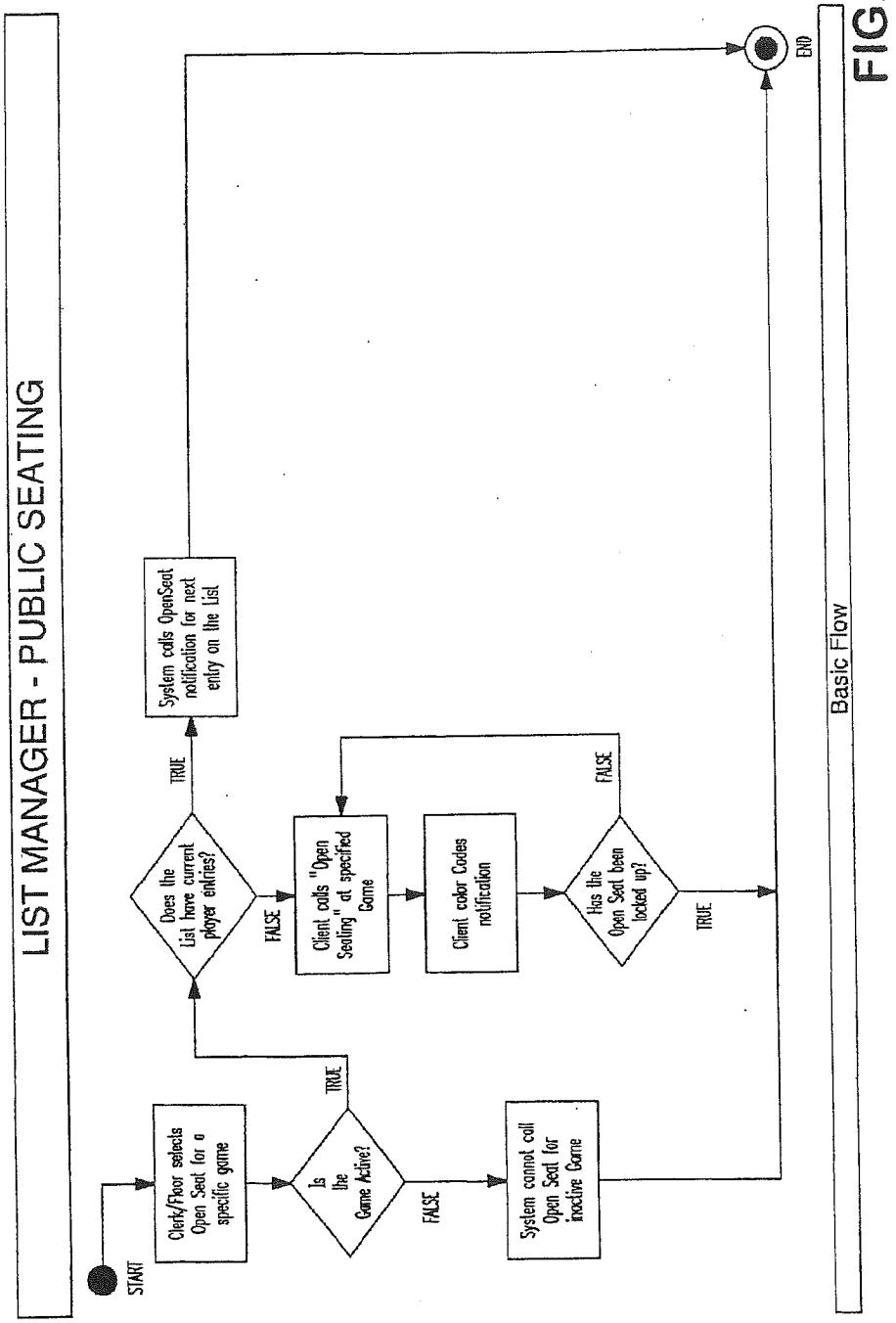

LIST MANAGER - PUBLIC SEATING
START
Clerk/Floor selects Open Seat for a specific game
Is the Game Active?
TRUE
FALSE
System cannot call Open Seat for inactive Game
Does the List have current player entries?
TRUE
FALSE
System calls OpenSeat notification for next entry on the List
Client calls "Open Seating" at specified Game
Client color Codes notification
Has the Open Seat been locked up?
FALSE
TRUE
END
Basic Flow

FIG. 64

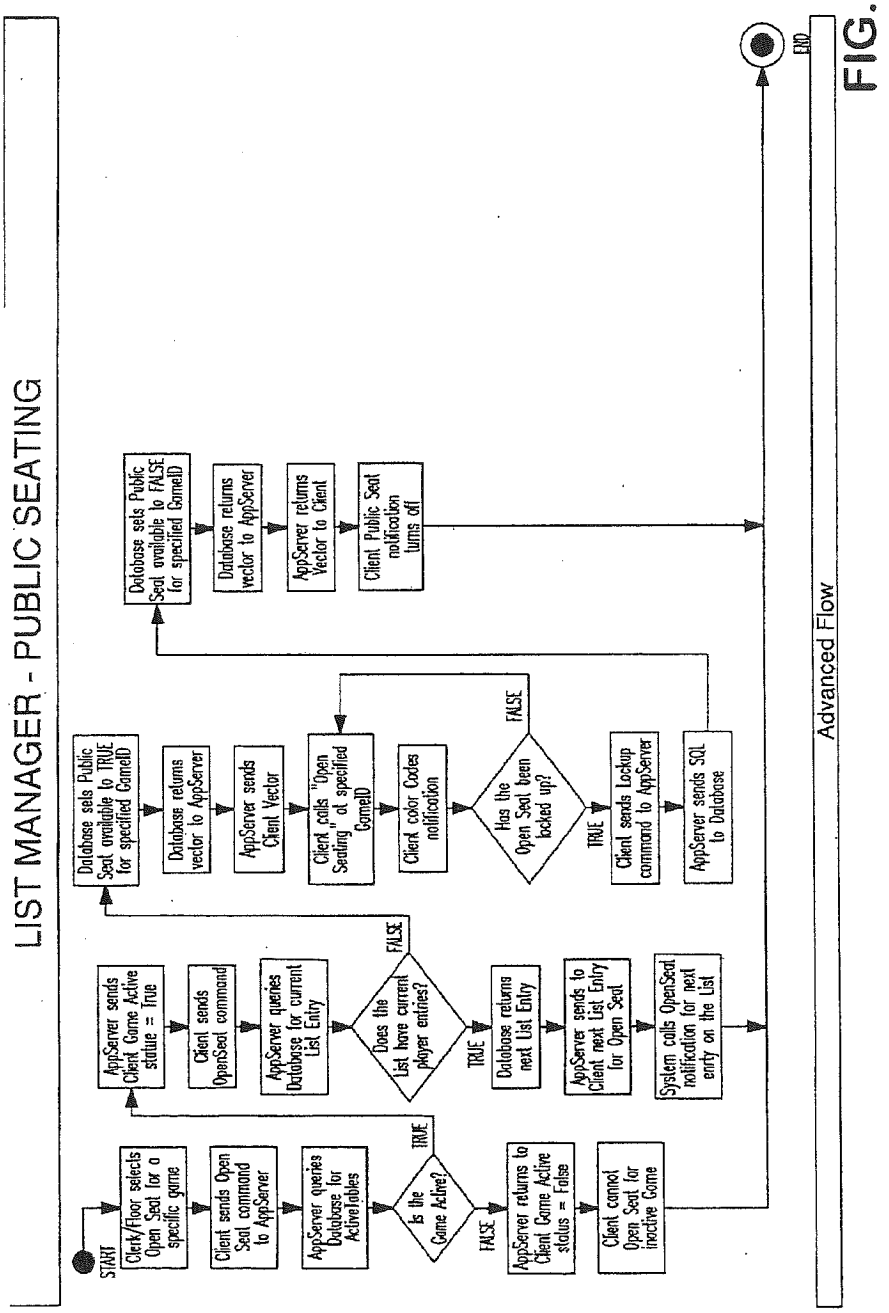

LIST MANAGER - PUBLIC SEATING
START
Clerk/Floor selects Open Seat for a specific game
Client sends Open Seat command to AppServer
AppServer queries Database for ActiveTables
Is the Game Active?
TRUE
FALSE
AppServer returns to Client Game Active status = false
Client cannot Open Seat for inactive Game
AppServer sends Client Game Active status = True
Client sends OpenSeat command
AppServer queries Database for current List Entry
Does the List have current player entries?
FALSE
TRUE
Database returns next List Entry
AppServer sends to Client next List Entry for Open Seat
System calls OpenSeat notification for next entry on the List
Database sets Public Seat available to TRUE for specified GameID
Database returns vector to AppServer
AppServer sends Client Vector
Client calls "Open Seating" at specified GameID
Client color Codes notification
Has the Open Seat been locked up?
FALSE
TRUE
Client sends Lockup command to AppServer
AppServer sends SQL to Database
Database sets Public Seat available to FALSE for specified GameID
Database returns vector to AppServer
AppServer returns Vector to Client
Client Public Seat notification turns off
Advanced Flow
END

FIG. 65

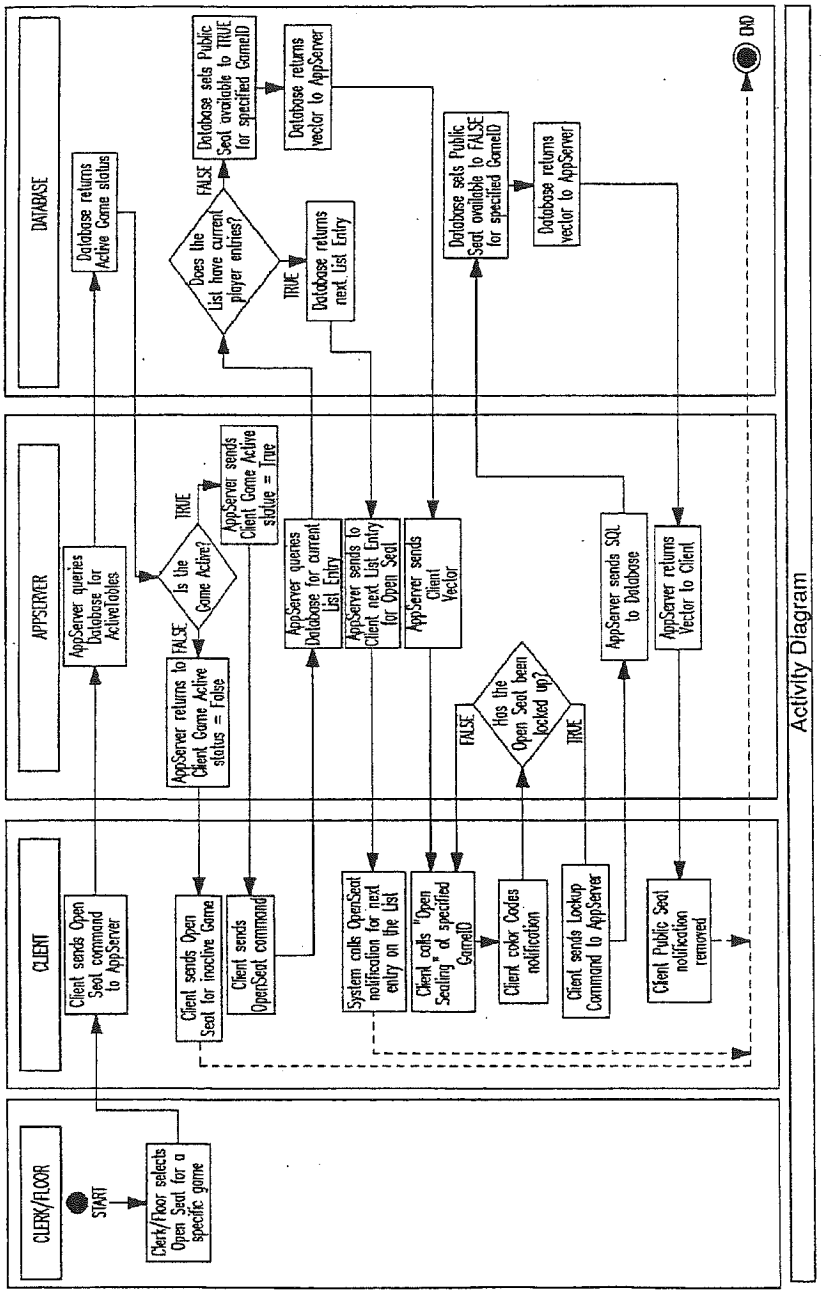

CLERK/FLOOR
START
Clerk/Floor selects Open Seat for a specific game
CLIENT
Client sends Open Seat command to AppServer
Client sends Open Seat for inactive Game
Client sends OpenSeat command
System calls OpenSeat notification for next entry on the List
Client calls "Open Seating" at specified GameID
Client color Codes notification
Client sends Lookup Command to AppServer
Client Public Seat notification removed
APPSERVER
AppServer queries Database for ActiveTables
Is the Game Active?
TRUE
FALSE
AppServer sends Client Game Active status = True
AppServer returns to Client Game Active status = False
AppServer queries Database for current List Entry
AppServer sends to Client next List Entry for Open Seat
AppServer sends Client Vector
Has the Open Seat been locked up?
FALSE
TRUE
AppServer sends SQL to Database
AppServer returns Vector to Client
DATABASE
Database returns Active Game status
Does the List have current player entries?
FALSE
TRUE
Database sets Public Seat available to TRUE for specified GameID
Database returns vector to AppServer
Database returns next List Entry
Database sets Public Seat available to FALSE for specified GameID
Database returns vector to AppServer
END
Activity Diagram

FIG. 66

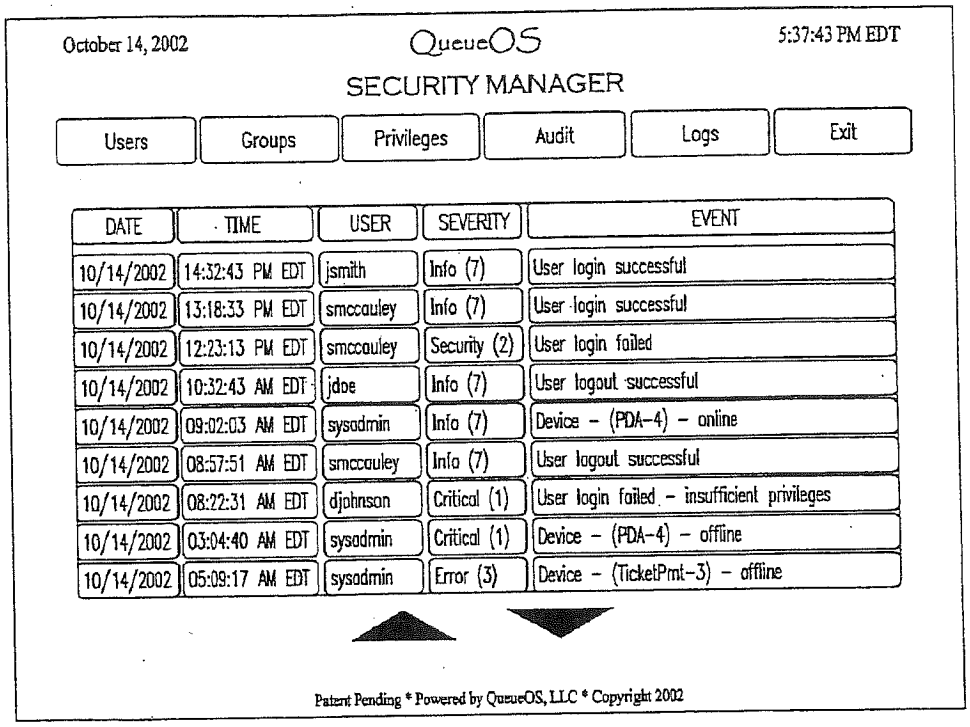

October 14, 2002
QueueOS
5:37:43 PM EDT
SECURITY MANAGER
Users
Groups
Privileges
Audit
Logs
Exit
DATE
TIME
USER
SEVERITY
EVENT
10/14/2002 14:32:43 PM EDT jsmith Info (7) User login successful
10/14/2002 13:18:33 PM EDT smccauley Info (7) User login successful
10/14/2002 12:23:13 PM EDT smccauley Security (2) User login failed
10/14/2002 10:32:43 AM EDT jdoe Info (7) User logout successful
10/14/2002 09:02:03 AM EDT sysadmin Info (7) Device - (PDA-4) - online
10/14/2002 08:57:51 AM EDT smccauley Info (7) User logout successful
10/14/2002 08:22:31 AM EDT djohnson Critical (1) User login failed - insufficient privileges
10/14/2002 03:04:40 AM EDT sysadmin Critical (1) Device - (PDA-4) - offline
10/14/2002 05:09:17 AM EDT sysadmin Error (3) Device - (TicketPmt-3) - offline
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 67

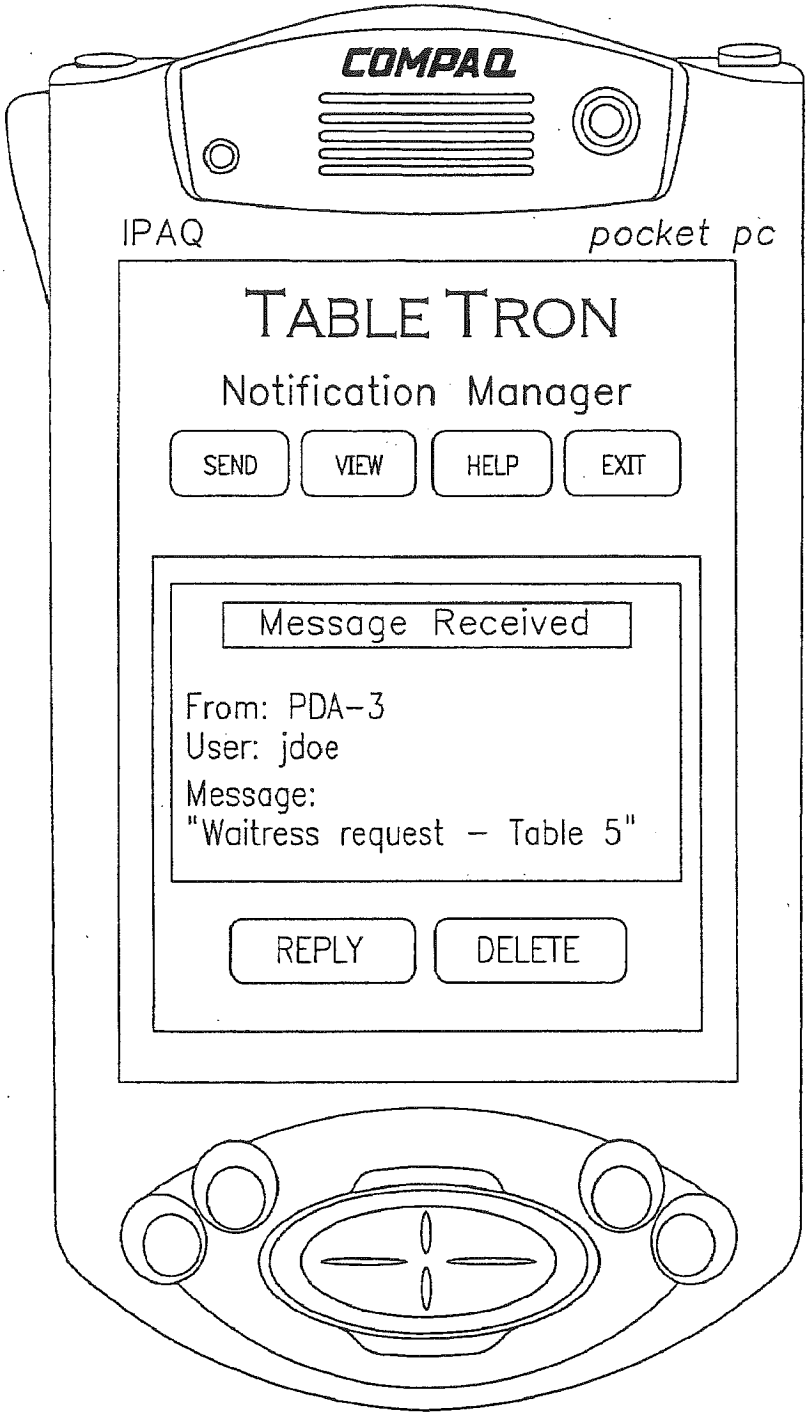

COMPAQ
IPAQ
pocket pc
TABLE TRON
Notification Manager
SEND
VIEW
HELP
EXIT
Message Received
From: PDA-3
User: jdoe
Message:
"Waitress request – Table 5"
REPLY
DELETE

FIG. 68

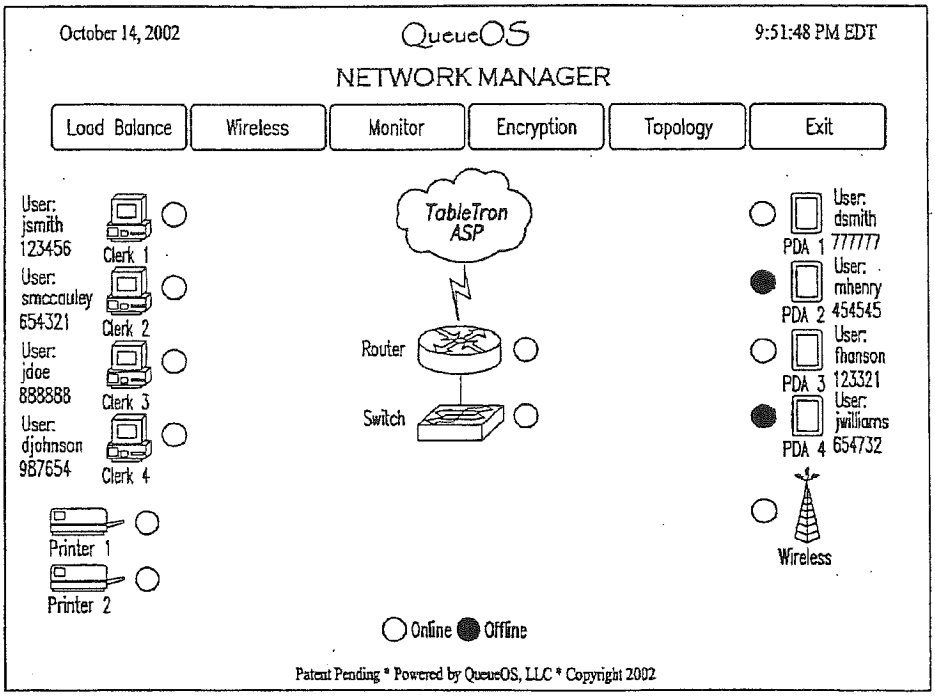

October 14, 2002
QueueOS
9:51:48 PM EDT
NETWORK MANAGER
Load Balance
Wireless
Monitor
Encryption
Topology
Exit
User: jsmith 123456
Clerk 1
User: smccauley 654321
Clerk 2
User: jdoe 888888
Clerk 3
User: djohnson 987654
Clerk 4
Printer 1
Printer 2
TableTron ASP
Router
Switch
User: dsmith 777777
PDA 1
User: mhenry 454545
PDA 2
User: fhanson 123321
PDA 3
User: jwilliams 654732
PDA 4
Wireless
Online
Offline
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 69

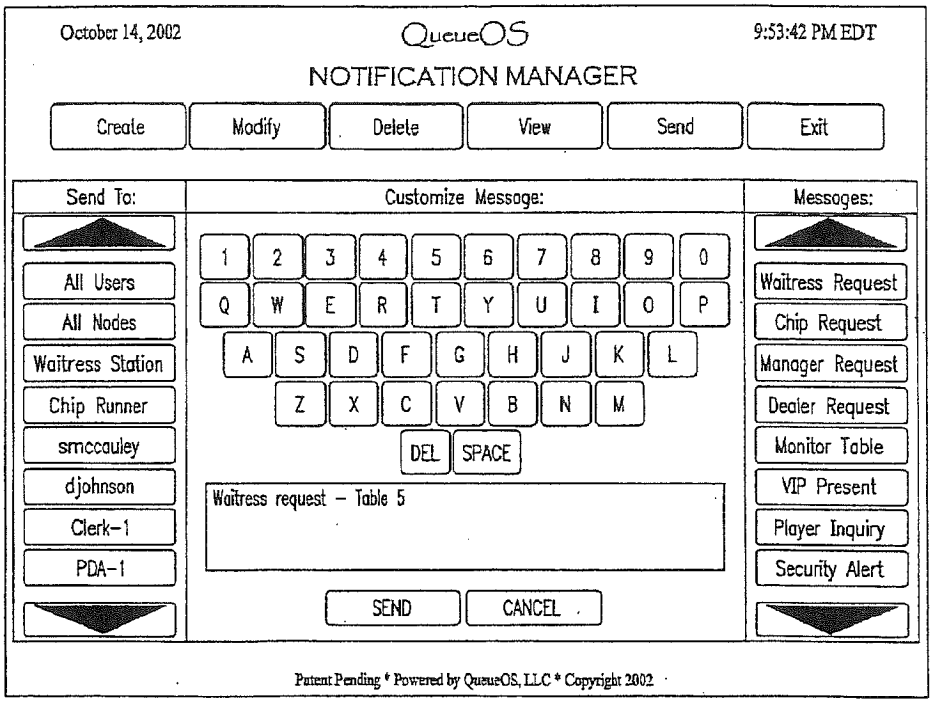

October 14, 2002
QueueOS
9:53:42 PM EDT
NOTIFICATION MANAGER
Create
Modify
Delete
View
Send
Exit
Send To:
Customize Message:
Messages:
All Users
All Nodes
Waitress Station
Chip Runner
smccauley
djohnson
Clerk-1
PDA-1
1 2 3 4 5 6 7 8 9 0
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
DEL
SPACE
Waitress request – Table 5
SEND
CANCEL
Waitress Request
Chip Request
Manager Request
Dealer Request
Monitor Table
VIP Present
Player Inquiry
Security Alert
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 70

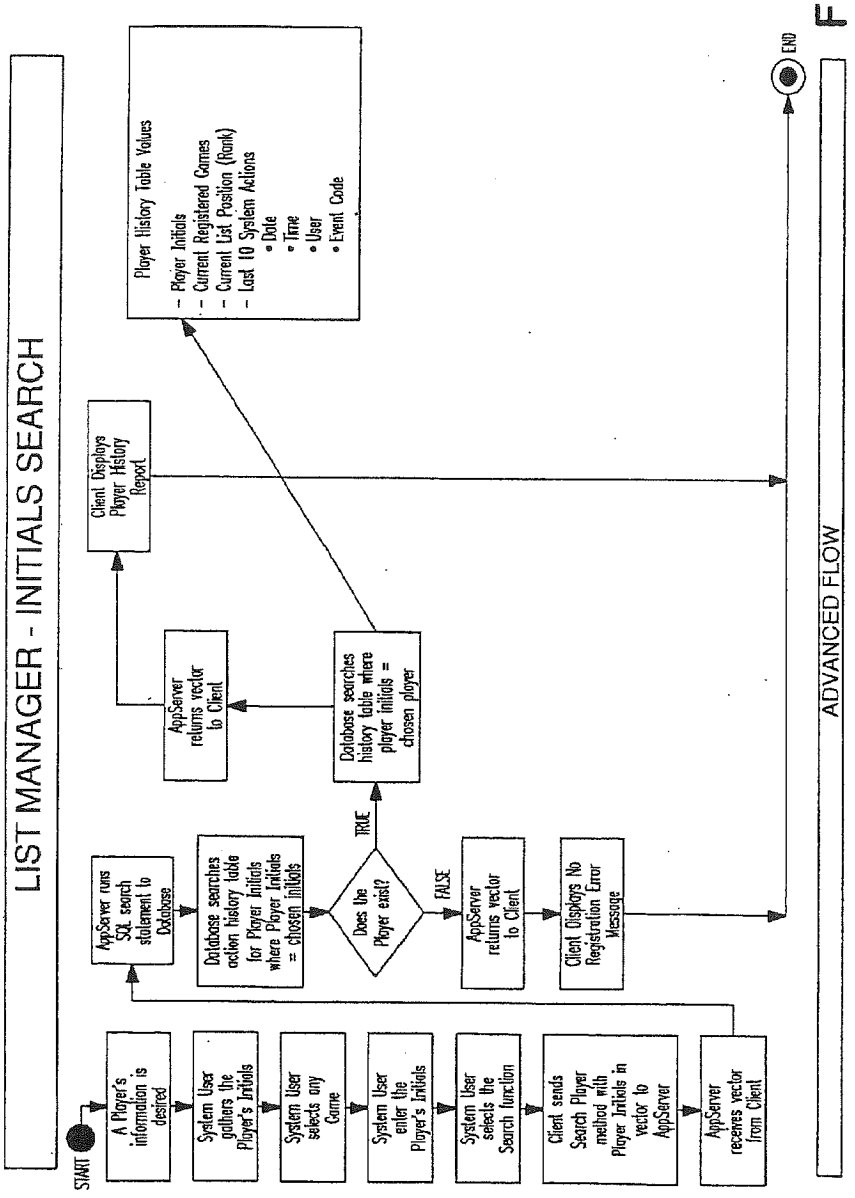

LIST MANAGER - INITIALS SEARCH
START
A Player's information is desired
System User gathers the Player's Initials
System User selects any Game
System User enter the Player's Initials
System User selects the Search function
Client sends Search Player method with Player Initials in vector to AppServer
AppServer receives vector from Client
AppServer runs SQL search statement to Database
Database searches action history table for Player Initials where Player Initials = chosen initials
Does the Player exist?
TRUE
FALSE
Database searches history table where player initials = chosen player
AppServer returns vector to Client
Client Displays No Registration Error Message
AppServer returns vector to Client
Client Displays Player History Report
Player History Table Values
– Player Initials
– Current Registered Games
– Current List Position (Rank)
– Last 10 System Actions
• Date
• Time
• User
• Event Code
END
ADVANCED FLOW

FIG. 71

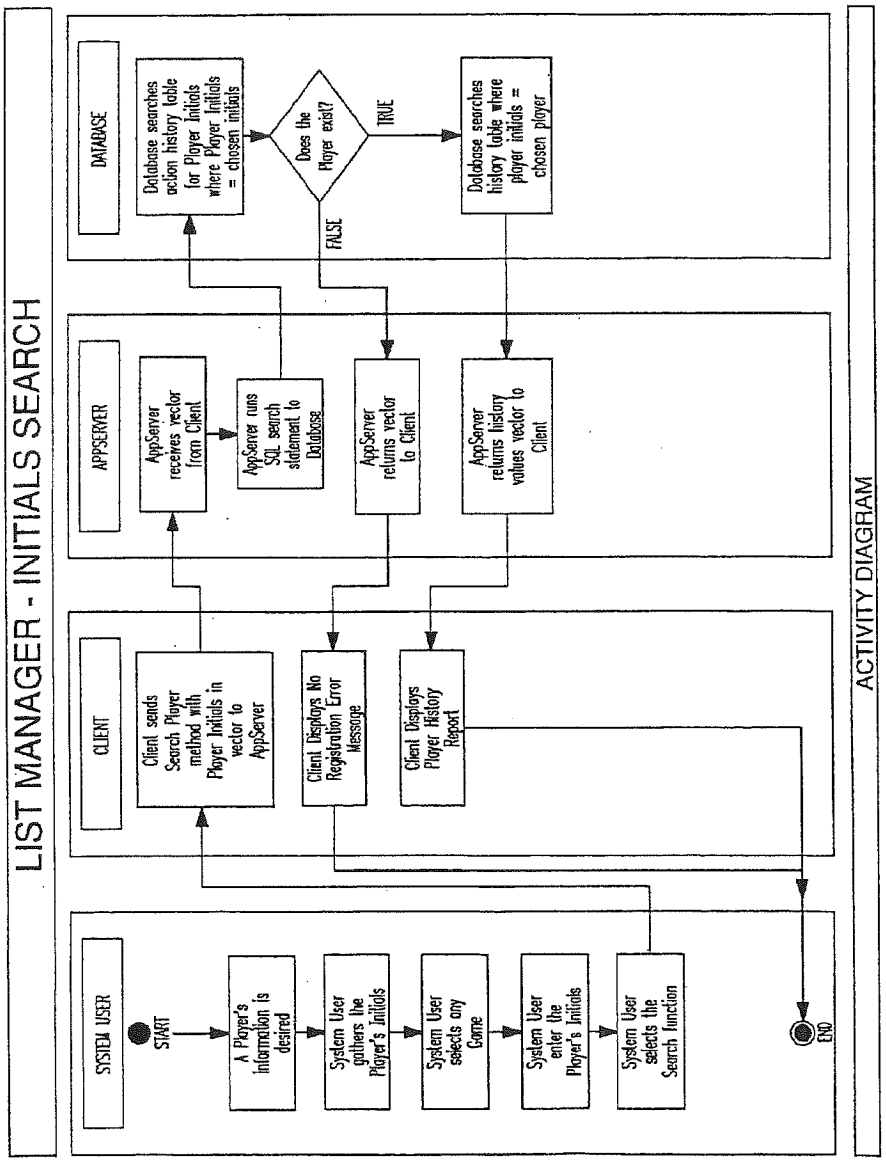

LIST MANAGER - INITIALS SEARCH
ACTIVITY DIAGRAM
SYSTEM USER
START
A Player's information is desired
System User gathers the Player's Initials
System User selects any Game
System User enter the Player's Initials
System User selects the Search function
END
CLIENT
Client sends Search Player method with Player Initials in vector to AppServer
Client Displays No Registration Error Message
Client Displays Player History Report
APPSERVER
AppServer receives vector from Client
AppServer runs SQL search statement to Database
AppServer returns vector to Client
AppServer returns history values vector to Client
DATABASE
Database searches action history table for Player Initials where Player Initials = chosen initials
Does the Player exist?
TRUE
FALSE
Database searches history table where player initials = chosen player

FIG. 72

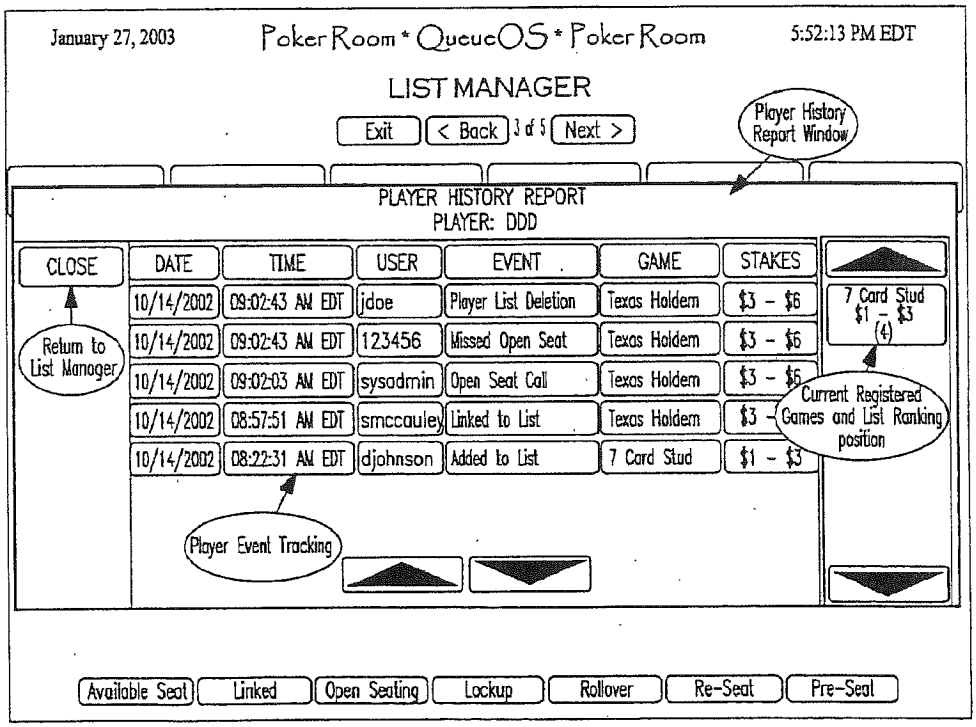

January 27, 2003
Poker Room * QueueOS * Poker Room
5:52:13 PM EDT
LIST MANAGER
Exit
< Back
3 of 5
Next >
Player History Report Window
PLAYER HISTORY REPORT
PLAYER: DDD
CLOSE
DATE
TIME
USER
EVENT
GAME
STAKES
10/14/2002 09:02:43 AM EDT jdoe Player List Deletion Texas Holdem $3 - $6
10/14/2002 09:02:43 AM EDT 123456 Missed Open Seat Texas Holdem $3 - $6
10/14/2002 09:02:03 AM EDT sysadmin Open Seat Call Texas Holdem $3 - $6
10/14/2002 08:57:51 AM EDT smccauley Linked to List Texas Holdem $3 -
10/14/2002 08:22:31 AM EDT djohnson Added to List 7 Card Stud $1 - $3
7 Card Stud $1 - $3 (4)
Return to List Manager
Current Registered Games and List Ranking position
Player Event Tracking
Available Seat
Linked
Open Seating
Lockup
Rollover
Re-Seat
Pre-Seat

FIG. 73

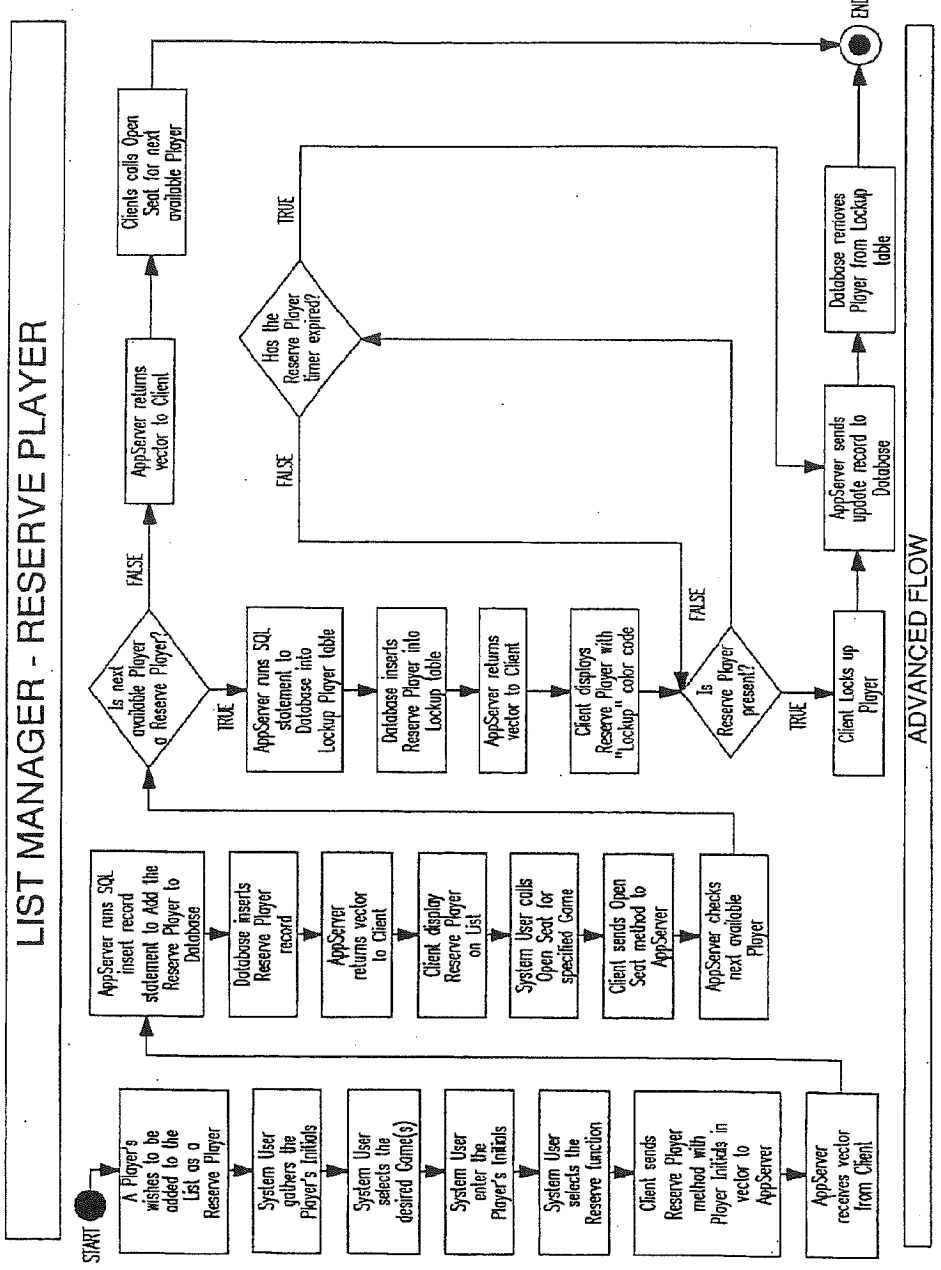

LIST MANAGER - RESERVE PLAYER
ADVANCED FLOW
START
A Player's wishes to be added to the List as a Reserve Player
System User gathers the Player's Initials
System User selects the desired Game(s)
System User enter the Player's Initials
System User selects the Reserve function
Client sends Reserve Player method with Player Initials in vector to AppServer
AppServer receives vector from Client
AppServer runs SQL insert record statement to Add the Reserve Player to Database
Database inserts Reserve Player record
AppServer returns vector to Client
Client display Reserve Player on List
System User calls Open Seat for specified Game
Client sends Open Seat method to AppServer
AppServer checks next available Player
Is next available Player a Reserve Player?
TRUE
FALSE
AppServer runs SQL statement to Database into Lockup Player table
Database inserts Reserve Player into Lockup table
AppServer returns vector to Client
Client displays Reserve Player with "Lockup" color code
Is Reserve Player present?
TRUE
FALSE
Client locks up Player
AppServer sends update record to Database
Database removes Player from Lockup table
AppServer returns vector to Client
Has the Reserve Player timer expired?
TRUE
FALSE
Clients calls Open Seat for next available Player
END

FIG. 74

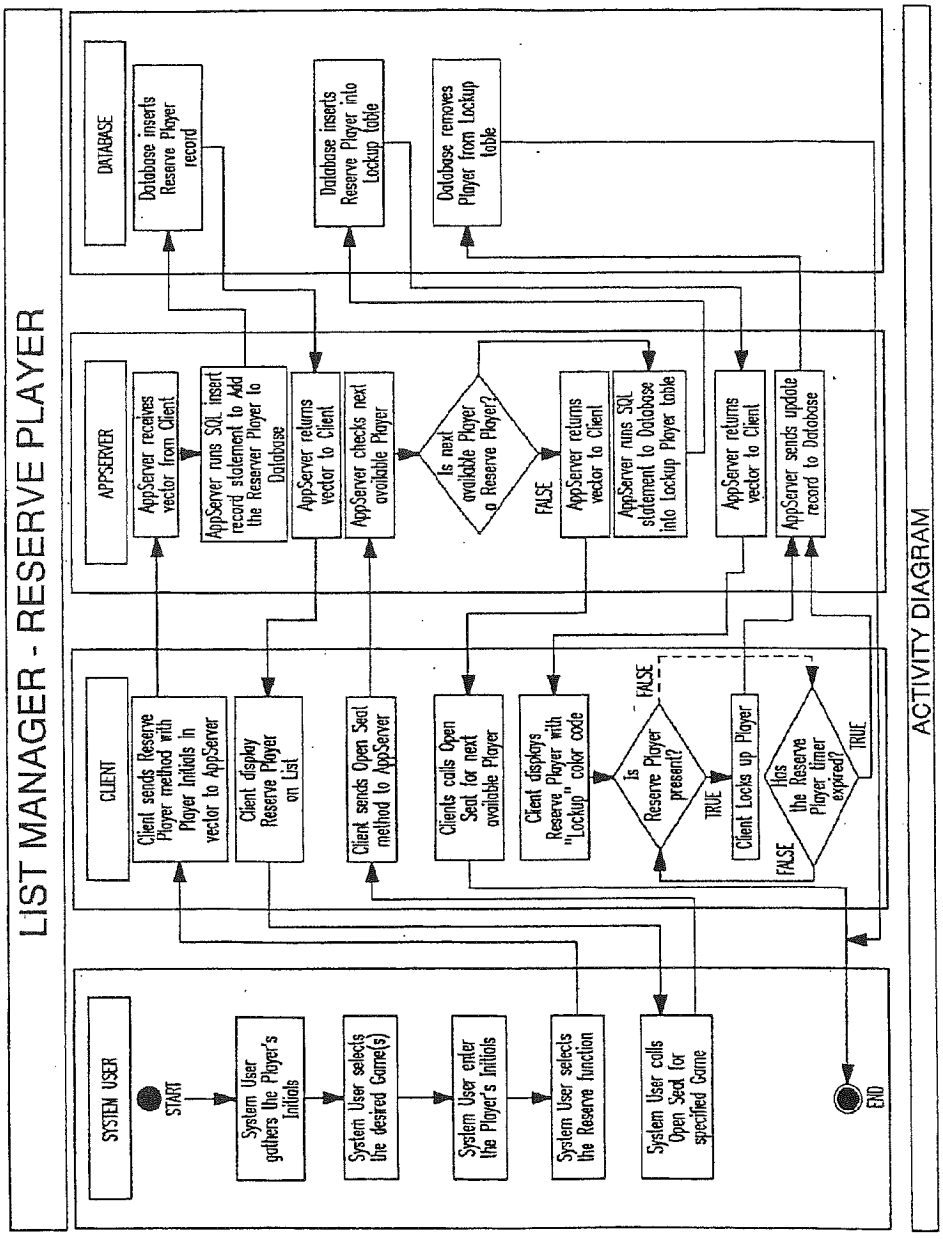

LIST MANAGER - RESERVE PLAYER
ACTIVITY DIAGRAM
SYSTEM USER
START
System User gathers the Player's Initials
System User selects the desired Game(s)
System User enter the Player's Initials
System User selects the Reserve function
System User calls Open Seat for specified Game
END
CLIENT
Client sends Reserve Player method with Player Initials in vector to AppServer
Client display Reserve Player on List
Client sends Open Seat method to AppServer
Clients calls Open Seat for next available Player
Client displays Reserve Player with "Lockup" color code
Is Reserve Player present?
FALSE
TRUE
Client Locks up Player
Has the Reserve Player timer expired?
FALSE
TRUE
APPSERVER
AppServer receives vector from Client
AppServer runs SQL insert record statement to Add the Reserver Player to Database
AppServer returns vector to Client
AppServer checks next available Player
Is next available Player a Reserve Player?
FALSE
AppServer returns vector to Client
AppServer runs SQL statement to Database into Lockup Player table
AppServer returns vector to Client
AppServer sends update record to Database
DATABASE
Database inserts Reserve Player record
Database inserts Reserve Player into Lockup table
Database removes Player from Lockup table

FIG. 75

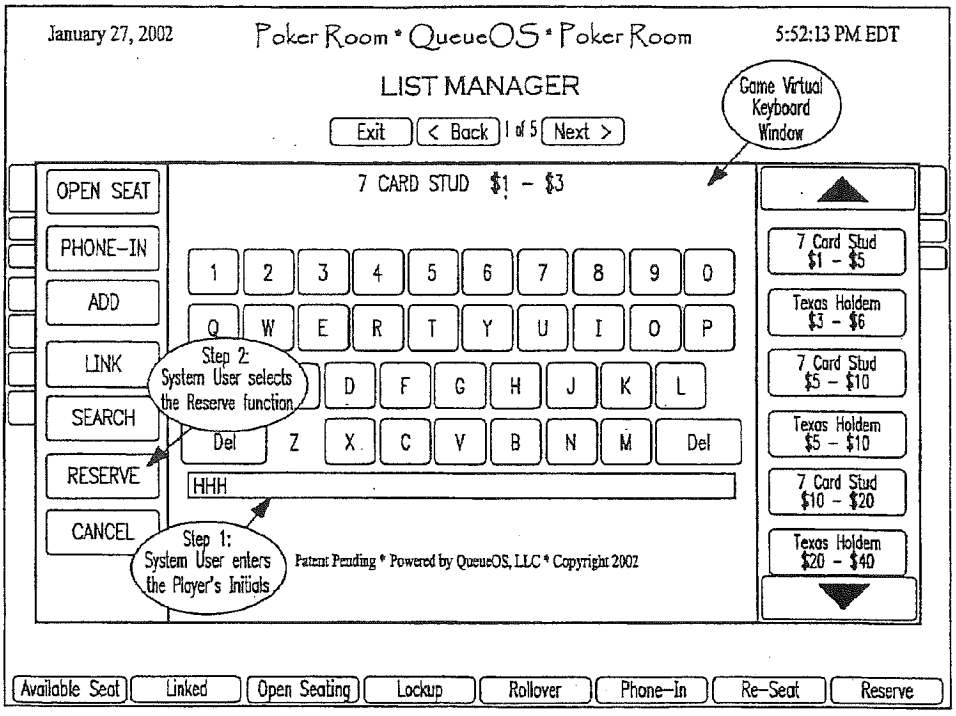

January 27, 2002
Poker Room * QueueOS * Poker Room
5:52:13 PM EDT
LIST MANAGER
Exit
< Back
1 of 5
Next >
Game Virtual Keyboard Window
OPEN SEAT
PHONE-IN
ADD
LINK
SEARCH
RESERVE
CANCEL
7 CARD STUD $1 - $3
1 2 3 4 5 6 7 8 9 0
Q W E R T Y U I O P
D F G H J K L
Del Z X C V B N M Del
HHH
Step 2: System User selects the Reserve function
Step 1: System User enters the Player's Initials
Patent Pending * Powered by QueueOS, LLC * Copyright 2002
7 Card Stud $1 - $5
Texas Holdem $3 - $6
7 Card Stud $5 - $10
Texas Holdem $5 - $10
7 Card Stud $10 - $20
Texas Holdem $20 - $40
Available Seat
Linked
Open Seating
Lockup
Rollover
Phone-In
Re-Seat
Reserve

FIG. 76

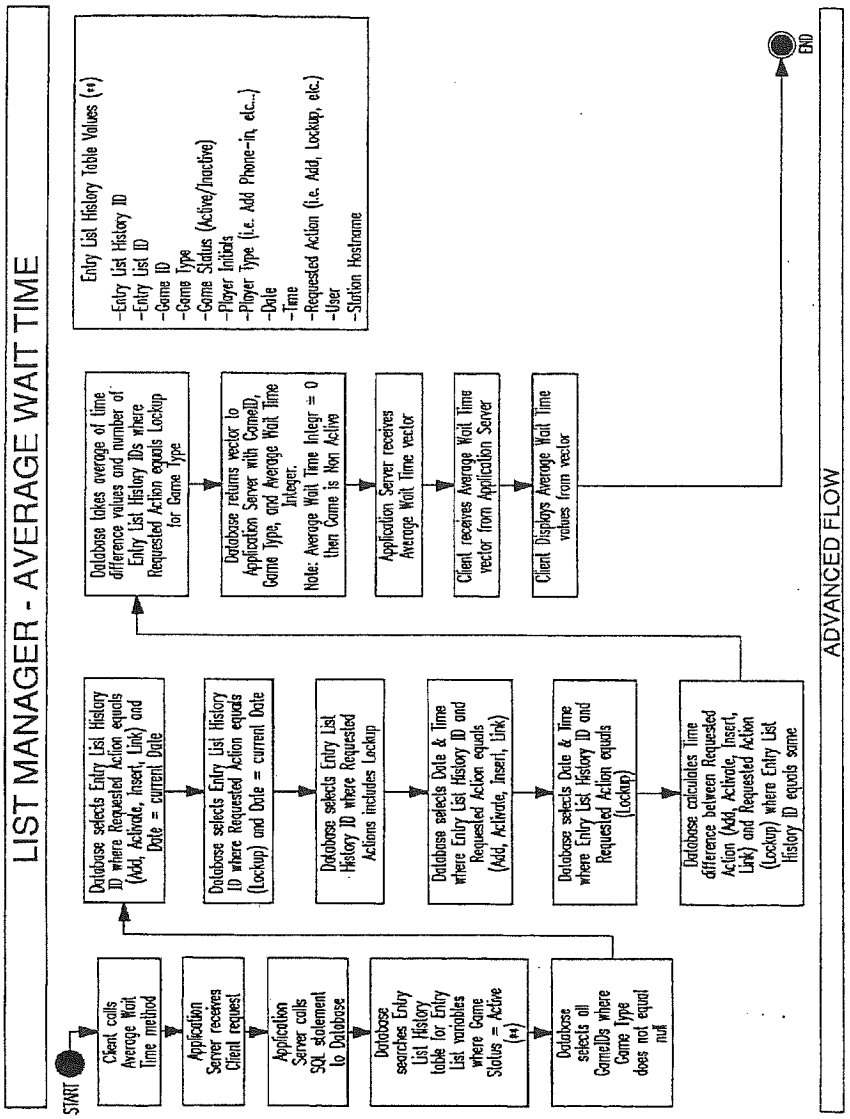

LIST MANAGER - AVERAGE WAIT TIME
START
Client calls Average Wait Time method
Application Server receives Client request
Application Server calls SQL statement to Database
Database searches Entry List History table for Entry List variables where Game Status = Active (#)
Database selects all GameIDs where Game Type does not equal null
Database selects Entry List History ID where Requested Action equals (Add, Activate, Insert, Link) and Date = current Date
Database selects Entry List History ID where Requested Action equals (Lockup) and Date = current Date
Database selects Entry List History ID where Requested Actions includes Lockup
Database selects Date & Time where Entry List History ID and Requested Action equals (Add, Activate, Insert, Link)
Database selects Date & Time where Entry List History ID and Requested Action equals (Lockup)
Database calculates Time difference between Requested Action (Add, Activate, Insert, Link) and Requested Action (Lockup) where Entry List History ID equals same
Database takes average of time difference values and number of Entry List History IDs where Requested Action equals Lockup for Game Type
Database returns vector to Application Server with GameID, Game Type, and Average Wait Time Integer.
Note: Average Wait Time Integr = 0 then Game is Non Active
Application Server receives Average Wait Time vector
Client receives Average Wait Time vector from Application Server
Client Displays Average Wait Time values from vector
Entry List History Table Values (*)
-Entry List History ID
-Entry List ID
-Game ID
-Game Type
-Game Status (Active/Inactive)
-Player Initials
-Player Type (i.e. Add Phone-in, etc...)
-Date
-Time
-Requested Action (i.e. Add, Lockup, etc.)
-User
-Station Hostname
END
ADVANCED FLOW

FIG. 77

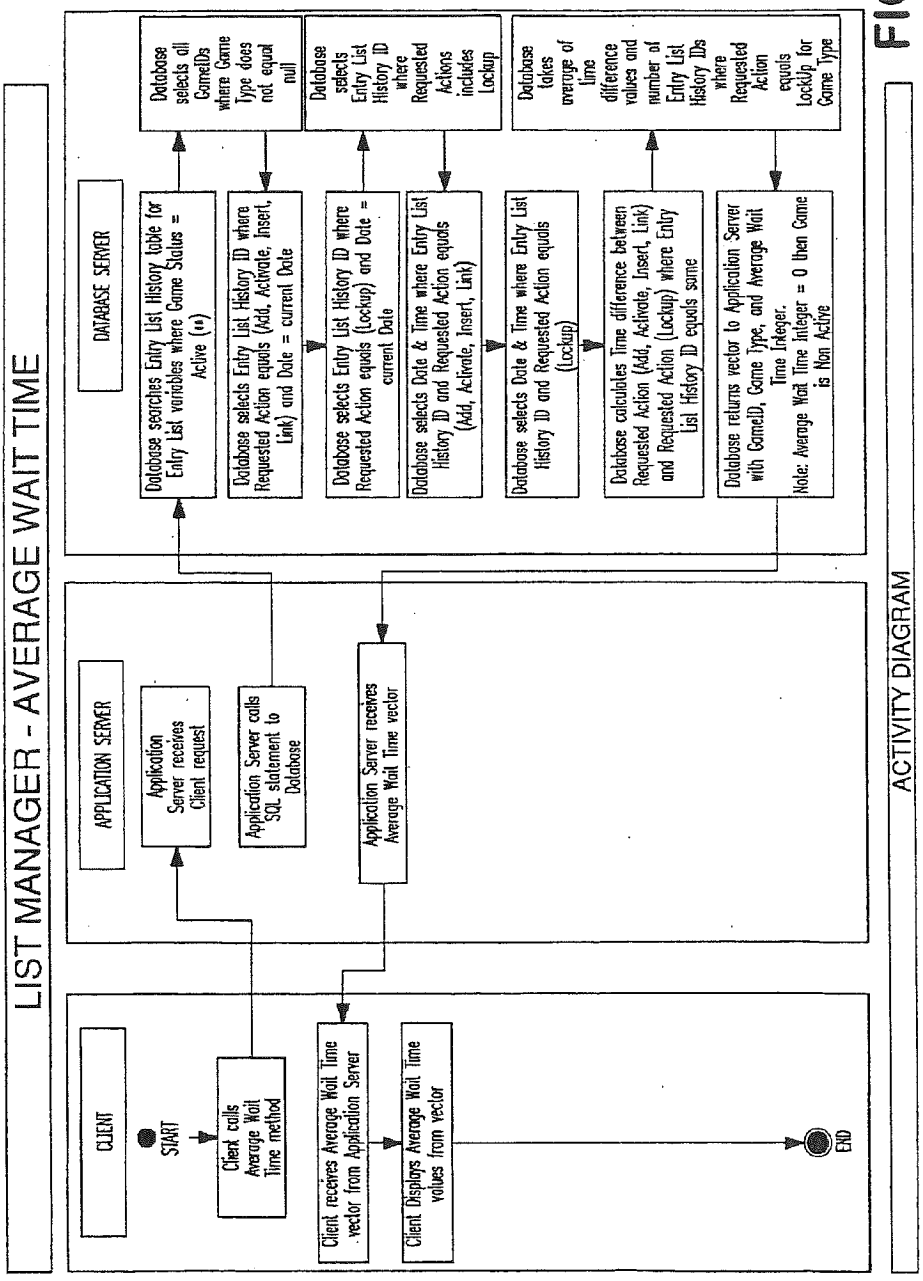

LIST MANAGER - AVERAGE WAIT TIME
CLIENT
START
Client calls Average Wait Time method
Client receives Average Wait Time vector from Application Server
Client Displays Average Wait Time values from vector
END
APPLICATION SERVER
Application Server receives Client request
Application Server calls SQL statement to Database
Application Server receives Average Wait Time vector
DATABASE SERVER
Database searches Entry List History table for Entry List variables where Game Status = Active (1)
Database selects Entry List History ID where Requested Action equals (Add, Activate, Insert, Link) and Date = current Date
Database selects Entry List History ID where Requested Action equals (Lockup) and Date = current Date
Database selects Date & Time where Entry List History ID and Requested Action equals (Add, Activate, Insert, Link)
Database selects Date & Time where Entry List History ID and Requested Action equals (Lockup)
Database calculates Time difference between Requested Action (Add, Activate, Insert, Link) and Requested Action (Lockup) where Entry List History ID equals same
Database returns vector to Application Server with GameID, Game Type, and Average Wait Time Integer.
Note: Average Wait Time Integer = 0 then Game is Non Active
Database selects all GameIDs where Game Type does not equal null
Database selects Entry List History ID where Requested Actions includes Lockup
Database takes average of time difference values and number of Entry List History IDs where Requested Action equals Lockup for Game Type
ACTIVITY DIAGRAM

FIG. 78

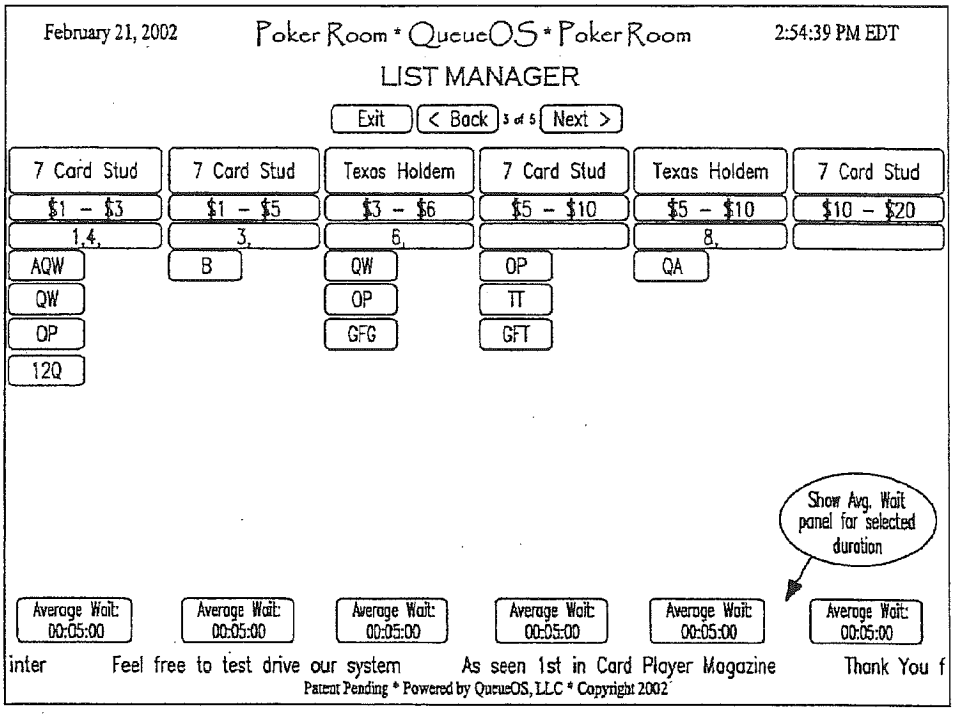

February 21, 2002
Poker Room * QueueOS * Poker Room
2:54:39 PM EDT
LIST MANAGER
Exit
< Back
3 of 5
Next >
7 Card Stud
$1 - $3
1,4,
AQW
QW
OP
12Q
7 Card Stud
$1 - $5
3,
B
Texas Holdem
$3 - $6
6,
QW
OP
GFG
7 Card Stud
$5 - $10
OP
TT
GFT
Texas Holdem
$5 - $10
8,
QA
7 Card Stud
$10 - $20
Show Avg. Wait panel for selected duration
Average Wait: 00:05:00
Average Wait: 00:05:00
Average Wait: 00:05:00
Average Wait: 00:05:00
Average Wait: 00:05:00
Average Wait: 00:05:00
inter
Feel free to test drive our system
As seen 1st in Card Player Magazine
Thank You f
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 79

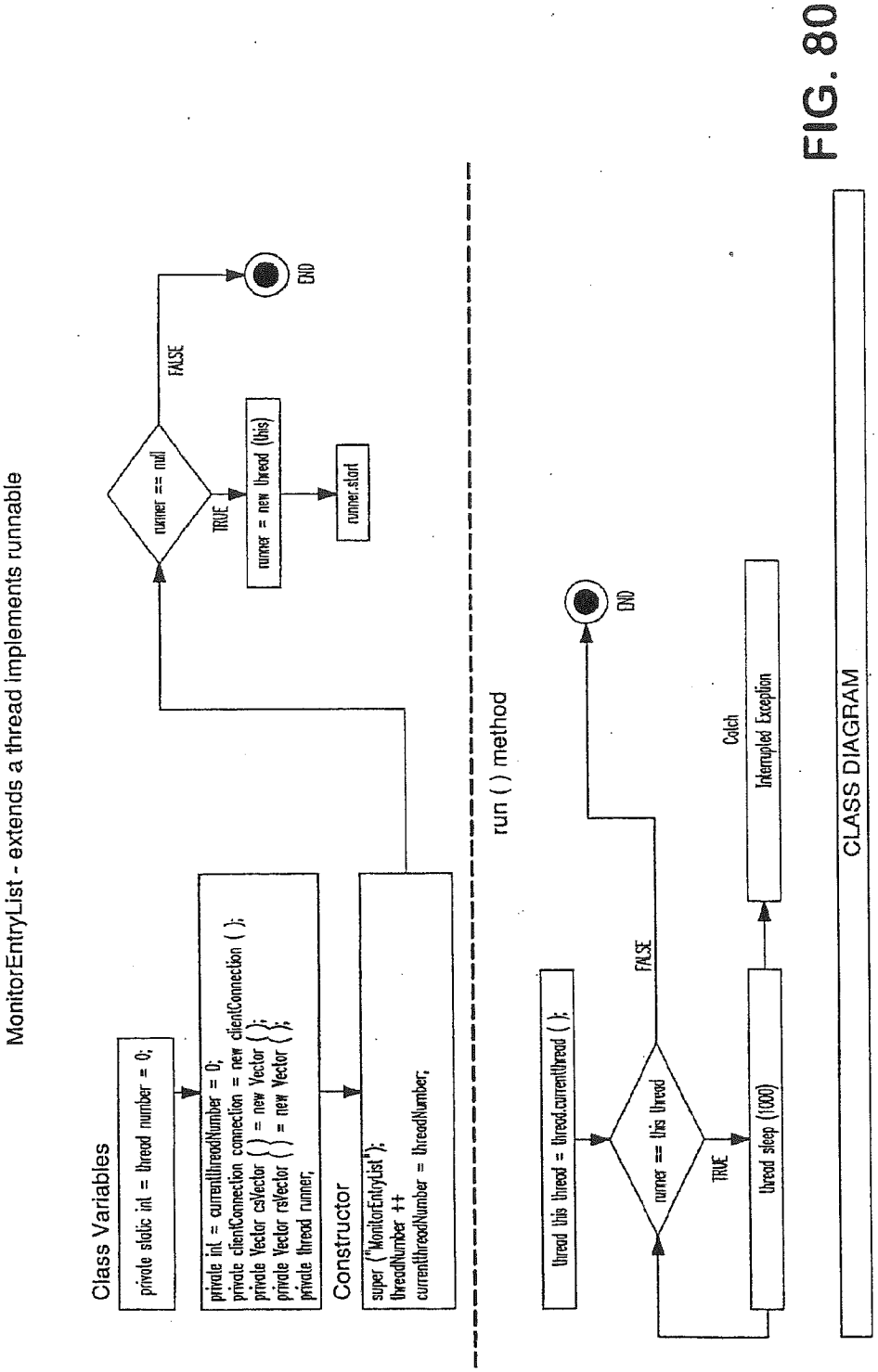

MonitorEntryList - extends a thread implements runnable
Class Variables
private static int = thread number = 0;
private int = currentthreadNumber = 0;
private clientConnection connection = new clientConnection ( );
private Vector csiVector ( ) = new Vector ( );
private Vector rsiVector ( ) = new Vector ( );
private thread runner;
Constructor
super ("MonitorEntryList");
threadNumber ++
currentthreadNumber = threadNumber;
runner == null
TRUE
FALSE
runner = new thread (this)
runner.start
END
run ( ) method
thread this thread = thread.currentthread ( );
runner == this thread
TRUE
FALSE
thread sleep (1000)
Catch
Interrupted Exception
END
CLASS DIAGRAM

FIG. 80

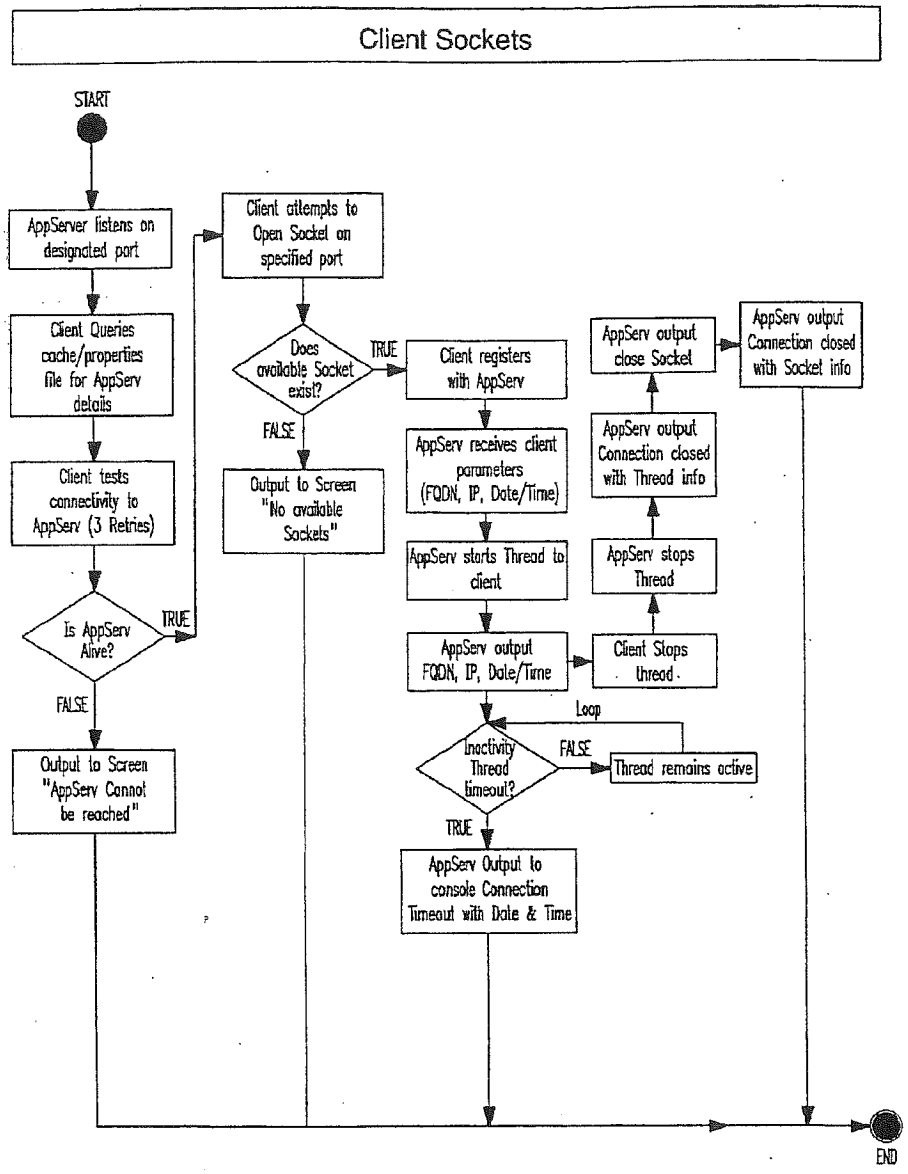

Client Sockets
START
AppServer listens on designated port
Client Queries cache/properties file for AppServ details
Client tests connectivity to AppServ (3 Retries)
Is AppServ Alive?
TRUE
FALSE
Output to Screen "AppServ Connot be reached"
Client attempts to Open Socket on specified port
Does available Socket exist?
TRUE
FALSE
Output to Screen "No available Sockets"
Client registers with AppServ
AppServ receives client parameters (FQDN, IP, Date/Time)
AppServ starts Thread to client
AppServ output FQDN, IP, Date/Time
Loop
Inactivity Thread timeout?
FALSE
Thread remains active
TRUE
AppServ Output to console Connection Timeout with Date & Time
Client Stops thread
AppServ stops Thread
AppServ output Connection closed with Thread info
AppServ output close Socket
AppServ output Connection closed with Socket info
END

FIG. 81

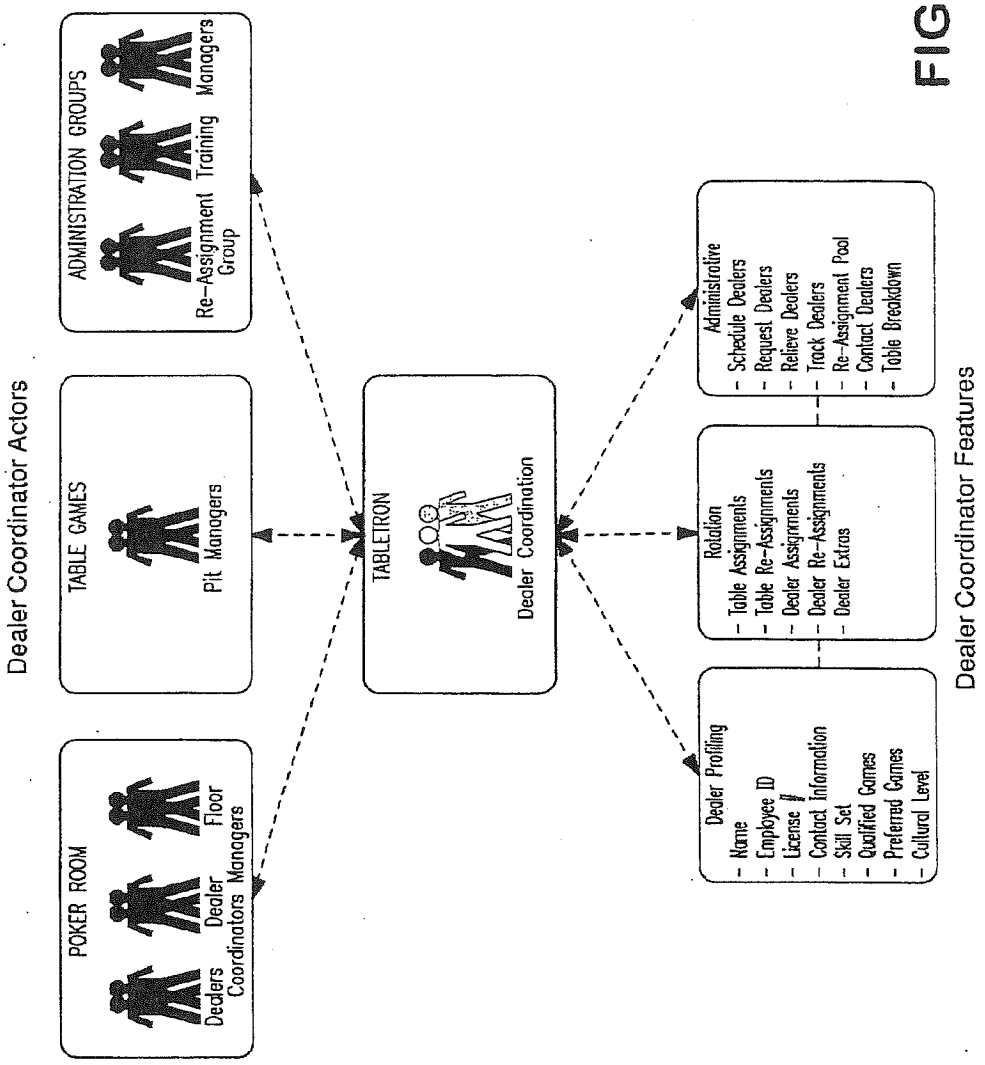

Dealer Coordinator Actors
POKER ROOM
Dealers
Dealer Coordinators
Floor Managers
TABLE GAMES
Pit Managers
ADMINISTRATION GROUPS
Re-Assignment Group
Training Managers
TABLETRON
Dealer Coordination
Dealer Profiling
- Name
- Employee ID
- License #
- Contact Information
- Skill Set
- Qualified Games
- Preferred Games
- Cultural Level
Rotation
- Table Assignments
- Table Re-Assignments
- Dealer Assignments
- Dealer Re-Assignments
- Dealer Extras
Administrative
- Schedule Dealers
- Request Dealers
- Relieve Dealers
- Track Dealers
- Re-Assignment Pool
- Contact Dealers
- Table Breakdown
Dealer Coordinator Features

FIG. 82

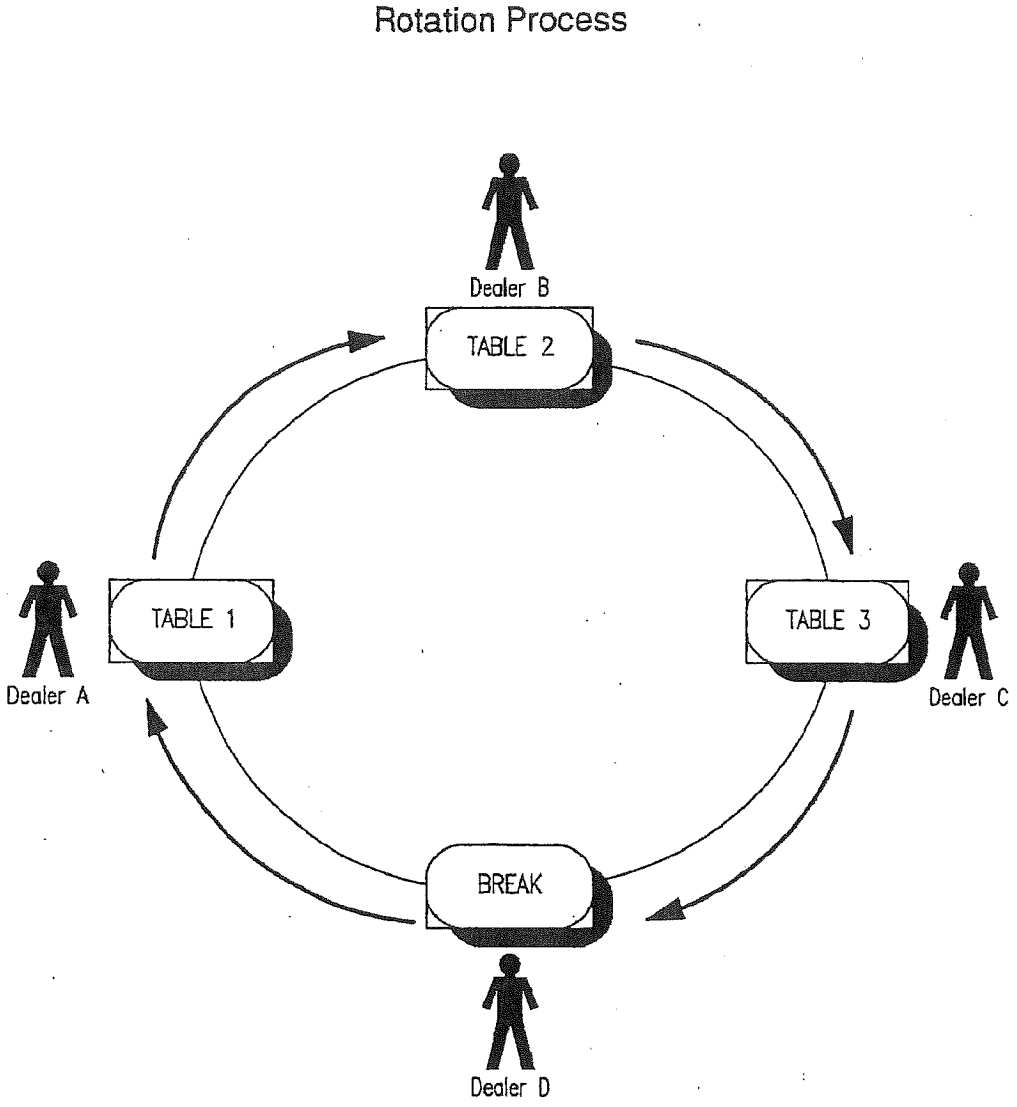

Rotation Process
Dealer B
TABLE 2
TABLE 1
TABLE 3
Dealer A
Dealer C
BREAK
Dealer D

FIG. 83

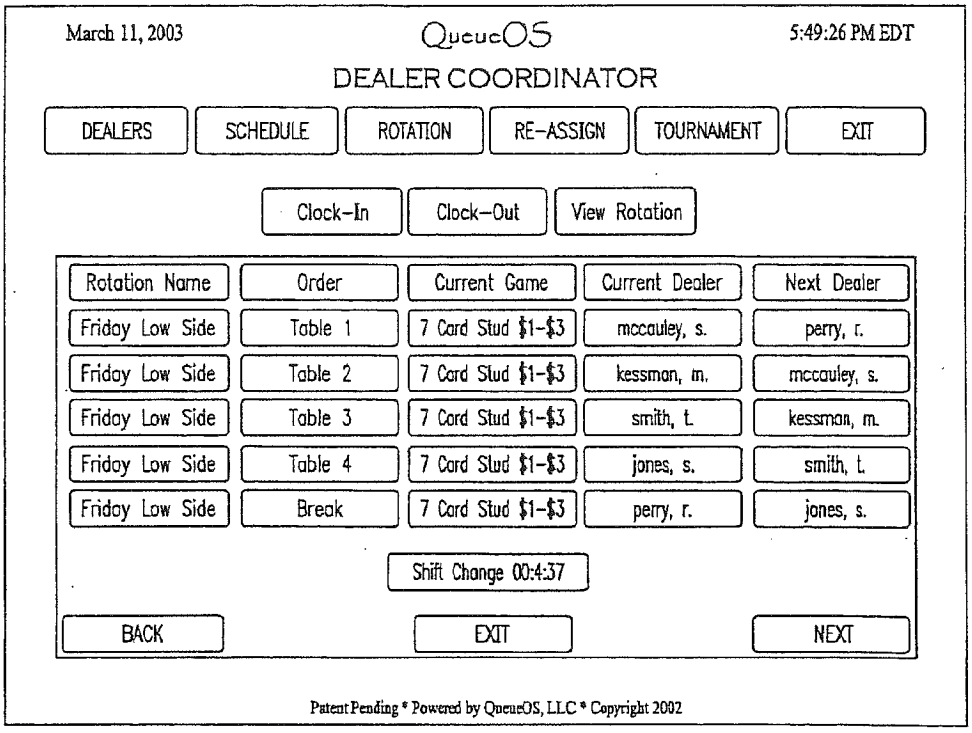

March 11, 2003
QueueOS
5:49:26 PM EDT
DEALER COORDINATOR
DEALERS
SCHEDULE
ROTATION
RE-ASSIGN
TOURNAMENT
EXIT
Clock-In
Clock-Out
View Rotation
Rotation Name
Order
Current Game
Current Dealer
Next Dealer
Friday Low Side
Table 1
7 Card Stud $1-$3
mccauley, s.
perry, r.
Friday Low Side
Table 2
7 Card Stud $1-$3
kessman, m.
mccauley, s.
Friday Low Side
Table 3
7 Card Stud $1-$3
smith, t.
kessman, m.
Friday Low Side
Table 4
7 Card Stud $1-$3
jones, s.
smith, t.
Friday Low Side
Break
7 Card Stud $1-$3
perry, r.
jones, s.
Shift Change 00:4:37
BACK
EXIT
NEXT
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 84

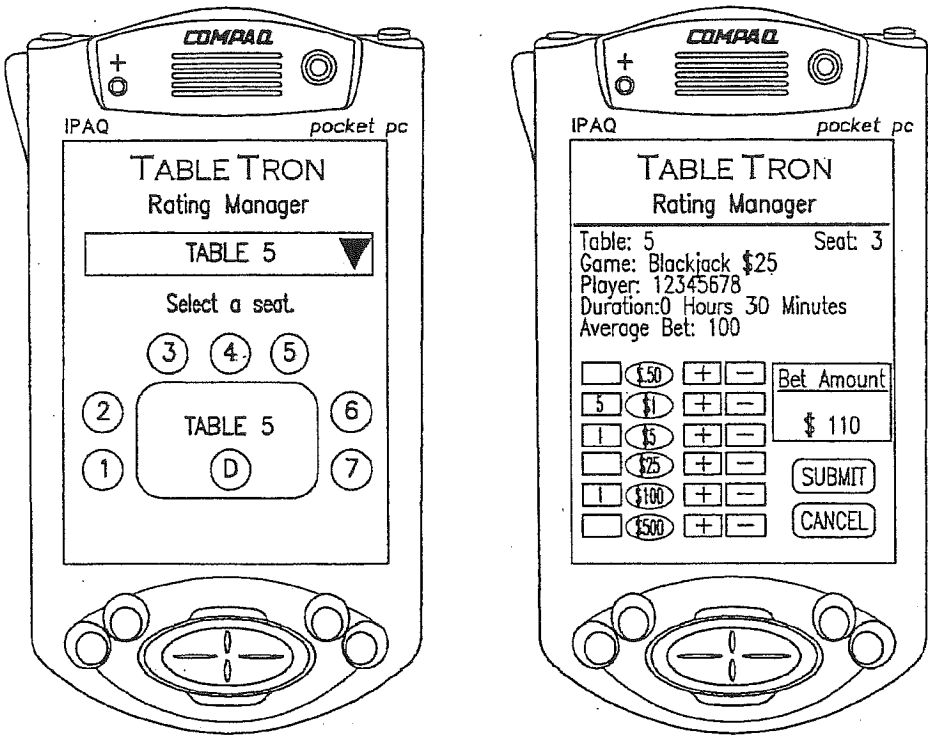

COMPAQ
IPAQ
pocket pc
TABLE TRON
Rating Manager
TABLE 5
Select a seat.
3
4
5
2
6
TABLE 5
D
1
7
COMPAQ
IPAQ
pocket pc
TABLE TRON
Rating Manager
Table: 5
Seat: 3
Game: Blackjack $25
Player: 12345678
Duration:0 Hours 30 Minutes
Average Bet: 100
$50
5
$1
1
$5
$25
1
$100
$500
Bet Amount
$ 110
SUBMIT
CANCEL

FIG. 85

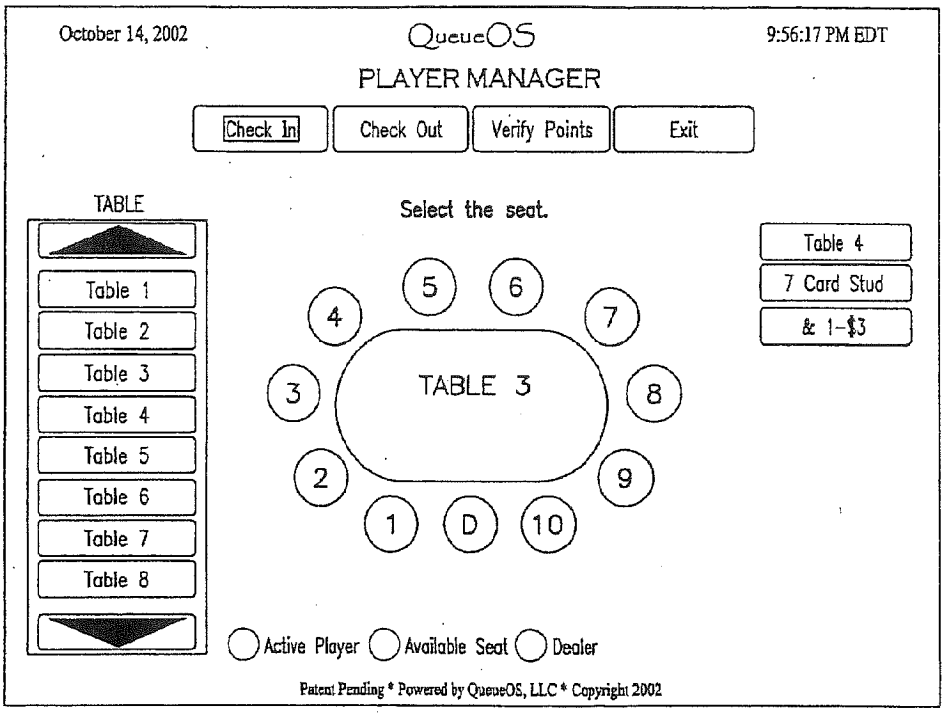

October 14, 2002
QueueOS
9:56:17 PM EDT
PLAYER MANAGER
Check In
Check Out
Verify Points
Exit
TABLE
Table 1
Table 2
Table 3
Table 4
Table 5
Table 6
Table 7
Table 8
Select the seat.
TABLE 3
1
2
3
4
5
6
7
8
9
10
D
Table 4
7 Card Stud
& 1-$3
Active Player
Available Seat
Dealer
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 86

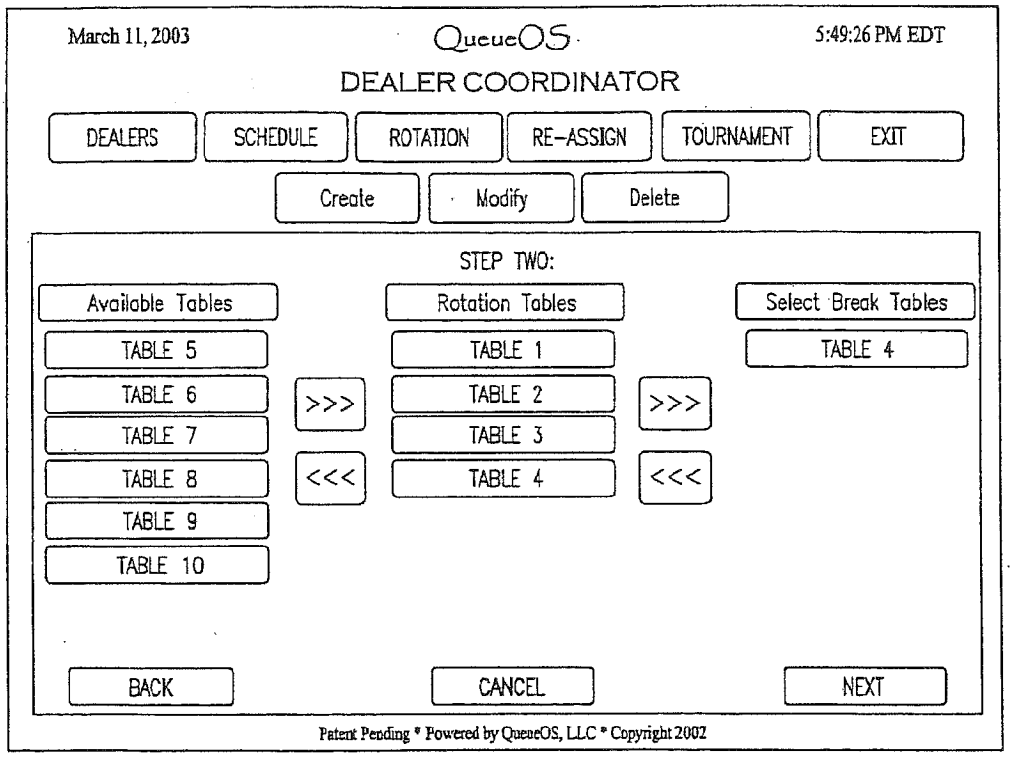

March 11, 2003
QueueOS
5:49:26 PM EDT
DEALER COORDINATOR
DEALERS
SCHEDULE
ROTATION
RE-ASSIGN
TOURNAMENT
EXIT
Create
Modify
Delete
STEP TWO:
Available Tables
Rotation Tables
Select Break Tables
TABLE 5
TABLE 6
TABLE 7
TABLE 8
TABLE 9
TABLE 10
>>>
<<<
TABLE 1
TABLE 2
TABLE 3
TABLE 4
>>>
<<<
TABLE 4
BACK
CANCEL
NEXT
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 87

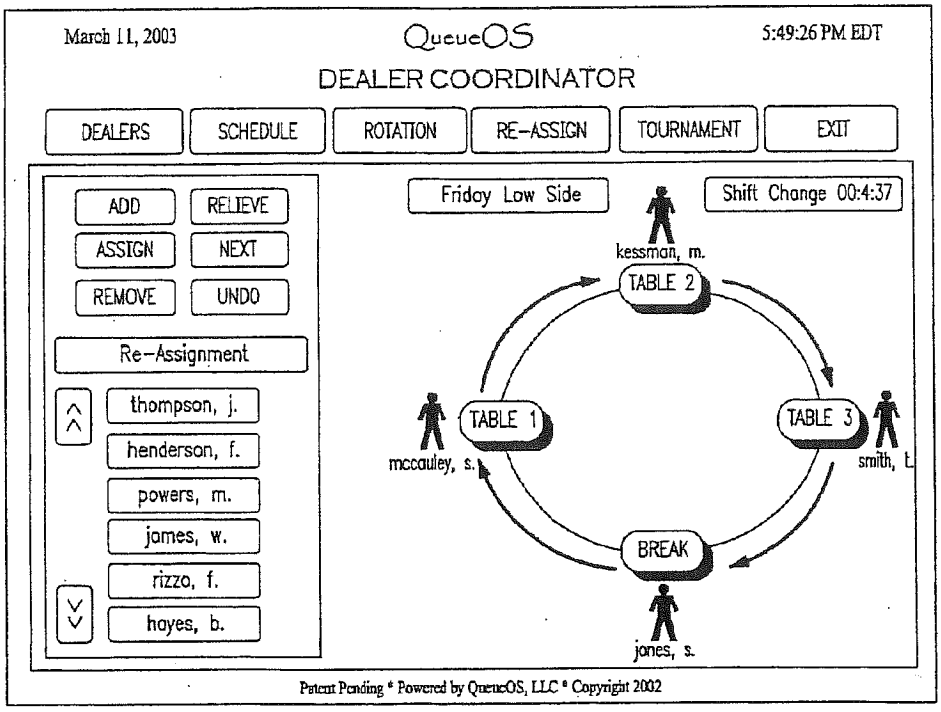

March 11, 2003
QueueOS
5:49:26 PM EDT
DEALER COORDINATOR
DEALERS
SCHEDULE
ROTATION
RE-ASSIGN
TOURNAMENT
EXIT
ADD
RELIEVE
ASSIGN
NEXT
REMOVE
UNDO
Re-Assignment
thompson, j.
henderson, f.
powers, m.
james, w.
rizzo, f.
hayes, b.
Friday Low Side
Shift Change 00:4:37
kessman, m.
TABLE 2
TABLE 1
TABLE 3
mccauley, s.
smith, t.
BREAK
jones, s.
Patent Pending * Powered by QueueOS, LLC * Copyright 2002

FIG. 88

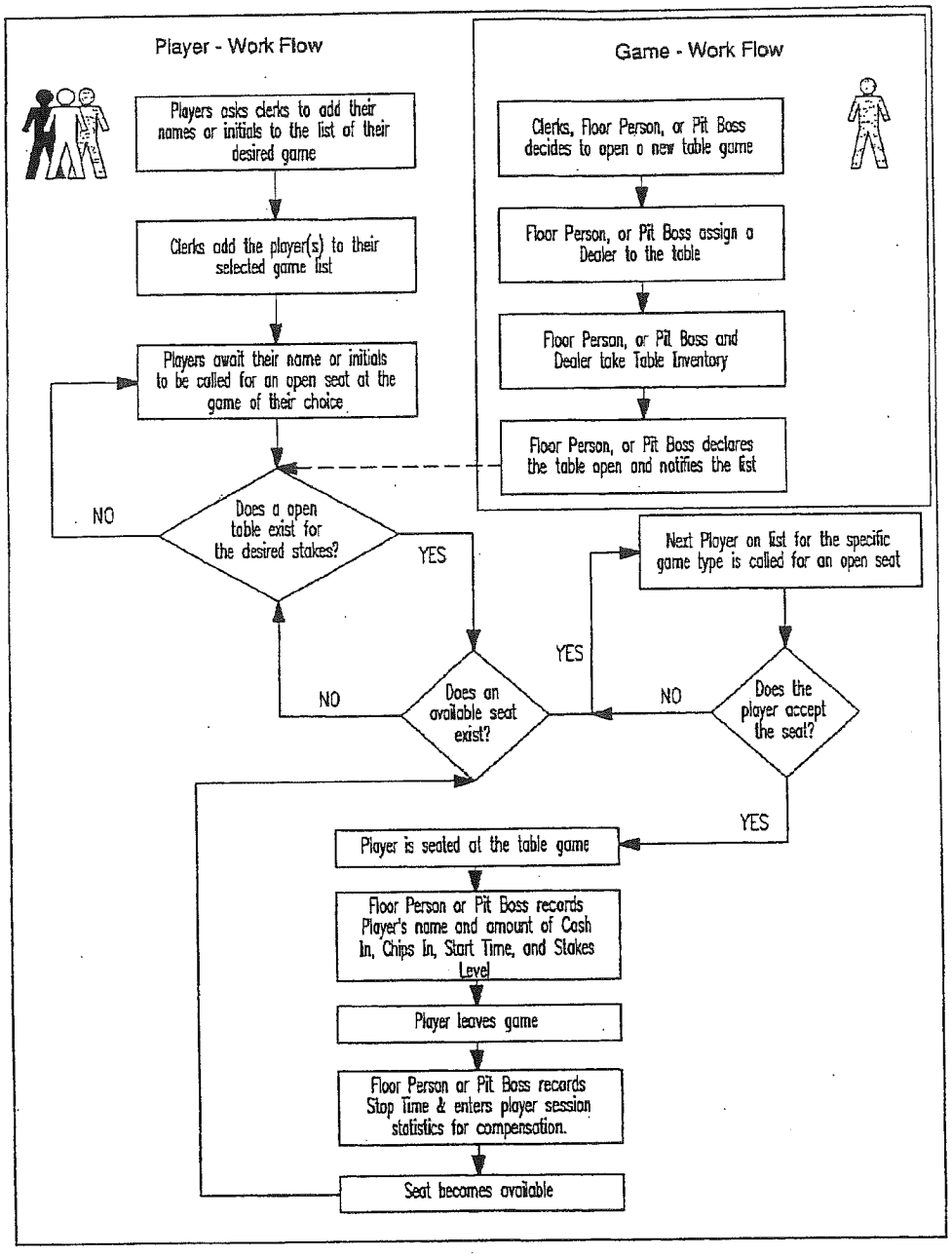

Player - Work Flow
Game - Work Flow
Players asks clerks to add their names or initials to the list of their desired game
Clerks add the player(s) to their selected game list
Players await their name or initials to be called for an open seat at the game of their choice
Clerks, Floor Person, or Pit Boss decides to open a new table game
Floor Person, or Pit Boss assign a Dealer to the table
Floor Person, or Pit Boss and Dealer take Table Inventory
Floor Person, or Pit Boss declares the table open and notifies the list
Does a open table exist for the desired stakes?
NO
YES
Next Player on list for the specific game type is called for an open seat
Does an available seat exist?
NO
YES
Does the player accept the seat?
NO
YES
Player is seated at the table game
Floor Person or Pit Boss records Player's name and amount of Cash In, Chips In, Start Time, and Stakes Level
Player leaves game
Floor Person or Pit Boss records Stop Time & enters player session statistics for compensation.
Seat becomes available

FIG. 89

PRODUCTS AND PROCESSES FOR OPERATIONS MANAGEMENT OF CASINO, LEISURE AND HOSPITALITY INDUSTRY

This application is a divisional application of U.S. application Ser. No. 10/452,231, Now U.S. Pat. No. 7,431,650 filed May 30, 2003, entitled "Products and processes for operations management of casino, leisure and hospitality industry" that claims the priority of:

Provisional Patent Application No. 60/384,565, filed on May 30, 2002, entitled "Products and processes for operations management of casino, leisure and hospitality industry"; and

Provisional Patent Application No. 60/429,383, filed on Nov. 25, 2002, entitled "Products and processes for operations management of casino, leisure and hospitality industry". All of which herein incorporated by reference.

COMPUTER PROGRAM LISTING APPENDIX

The source code files listed below are in this application incorporated by reference, and are stored on two compact discs (one original compact disc and one duplicate) filed herewith.

Creation Date and Time		SIZE FILENAME
04/15/2002	02:51p	2,343 ActionButton.java
11/04/2002	06:18p	7,535 ActiveCreditRequestSummaryJPanel.java
11/04/2002	06:18p	7,451 ActiveFillRequestSummaryJPanel.java
02/11/2002	09:22p	11,697 administration.java
02/05/2003	02:09a	26,213 AS400RobotManager.java
04/03/2003	09:28p	1,916 AverageWaitButton.java
04/22/2003	12:38p	20,717 AverageWaitTimeEntryListCalculatorThread.java
02/20/2002	01:25p	671 BarCode.java
11/04/2002	06:19p	10,406 buildDB.java
11/04/2002	06:19p	2,110 buildPlayerCardSQL.java
11/04/2002	06:19p	4,295 buildPlayerSQL.java
11/04/2002	06:18p	2,200 CalculatorButton.java
12/16/2002	01:29p	10,542 CalculatorThread.java
04/22/2002	11:02p	2,743 CardNumberFocusThreadjava
04/29/2002	12:25p	4,411 CardReader.java
12/16/2002	01:24p	39,864 CasinoManagerConsole.java
12/16/2002	01:27p	3,432 CasinoManagerCreditTablesJPanel.java
05/15/2002	06:36p	2,323 CasinoManagerTableButton.java
12/16/2002	01:44p	3,412 CasinoManagerTablesJPanel.java
11/04/2002	06:19p	3,860 CheckInConfirmationJPanel.java
11/04/2002	06:19p	3,647 CheckInJPanel.java
02/05/2003	02:02a	11,141 CheckInPanel.java
11/04/2002	06:19p	2,369 CheckInPlayerButton.java
11/04/2002	06:19p	171 client.properties
02/05/2003	12:34a	30,743 ClientConnectionjava
11/04/2002	06:19p	7,313 clientListener.java
03/12/2002	04:12a	964 ClockLabel.java
02/21/2002	09:46p	4,909 Code39.java
01/28/2003	06:24p	2,317 ColumnHeaderButton.java
11/04/2002	06:18p	2,313 CreditCurrencyJButton.java
05/22/2002	04:09p	24,589 CreditDenominationJPanel.java
12/17/2002	06:17p	6,544 CreditJPanel.java
09/24/2002	08:43p	7,483 CreditRequestSummaryJPaneljava
04/30/2002	11:01p	17,071 CurrentBetJPanel.java
05/27/2003	01:22p	1,098 database.properties
11/04/2002	06:19p	12,780 DatabaseSystem.java
04/30/2002	10:05p	1,722 DateTime java
11/04/2002	06:19p	2,058 DigitalClock java
04/15/2002	02:51p	2,466 EntryButton java
11/04/2002	06:18p	2,309 FillCurrencyJButtonjava
05/21/2002	12:37p	24,451 FillDenominationJPanel.java
12/17/2002	06:19p	6,416 FillJPanel.java
09/24/2002	08:43p	7,401 FillRequestSummaryJPanel.java
12/12/2002	01:33a	9,133 FooterThread.java
12/12/2002	05:25p	20,245 GameConsole.java
04/15/2002	02:51p	2,831 GameLegendButton.java
12/16/2002	01:15p	13,274 GameManagerCommandCenter.java
12/17/2002	06:21p	3,083 GamesJPanel.java
04/15/2002	02:51p	1,888 GameTypeComboBox.java
12/06/2001	12:01a	1,256 getWebFile.java
05/29/2002	11:45a	1,915 GradientCardSwipeJPanel.java
04/21/2002	03:06p	1,897 GradientJPanel Java
05/29/2002	04:50p	3,467 GradientLoginInfoJPanel.java
12/01/2001	06:32p	1,334 hello Java
04/10/2003	02:42p	7,868 HTTPRequest Java
04/10/2003	02:19p	3,997 HTTPRequestPOST Java
04/10/2003	02:19p	162 httpserver.properties
04/10/2003	02:19p	7,264 HTTPServerPropertyLoader.java
11/04/2002	06:18p	2,348 IncrementDecrementJButton.Java
12/03/2001	02:55a	456 InitializeSystem.java

-continued

Creation Date and Time		SIZE FILENAME
07/23/2002	05:00p	2,877 InteractiveCalendar.java
01/31/2003	10:37p	25,168 Ipaq.java
04/22/2003	12:14a	3,517 JarClassLoader.java
04/22/2003	12:15a	4,930 JarRunner Java
04/15/2002	02:51p	2,305 KeyboardKeyButton Java
03/12/2002	04:03a	5,845 KeyDetection Java
04/22/2003	11:52a	15,121 LegacyInterface.java
04/15/2003	03:07a	35,056 LegacyRobot.java
11/04/2002	06:19p	1,852 LegendButton.java
04/07/2003	02:15p	17,231 LegendThread.java
04/07/2003	02:19p	23,063 List.java
11/04/2002	06:18p	2,687 ListDownArrowJButtonjava
11/04/2002	06:18p	2,298 ListGameButton.java
05/08/2002	09:06p	2,361 ListGameScrollButton Java
11/04/2002	06:19p	6,6071istManager.java
05/23/2002	05:50p	21,191 ListManagerRobot.java
01/27/2003	11:04a	17,786 ListPanel.java
04/15/2002	02:51p	776 ListPorts.java
11/04/2002	06:19p	2,685 ListUpArrowJButton.java
11/04/2002	06:18p	2,354 LoginInfoButton.java
12/03/2002	06:58p	17,401 LogonScreen Java
11/04/2002	06:19p	1,846 LongButton.java
04/22/2003	03:26p	2,216 MailExample.java
04/15/2002	02:51p	2,345 ManagerButton.java
03/12/2003	04:32p	20,603 ManagerConsole Java
12/16/2002	01:01p	6,738 MarqueeThread.java
11/04/2002	06:19p	2,336 MathematicalJButton.java
04/15/2002	02:51p	1,978 MenuButton.java
12/16/2002	12:52p	2,750 MonitorCloseTable Java
01/27/2003	10:59a	24,247 MonitorEntryList.java
12/16/2002	01:10p	2,517 MonitorOpenSeatjava
12/16/2002	12:54p	4,611 MonitorOpenTable.java
12/16/2002	01:17p	2,516 MonitorPhoneInList.java
12/16/2002	01:05p	4,000 MonitorPublicSeating.java
12/16/2002	01:19p	8,435 MultiAddJPanel.java
01/28/2003	11:43p	10,343 MultiGamePlayerView.java
12/12/2002	01:26a	10,378 MultiGamePlayerViewJPanel.java
12/03/2002	01:20a	12,381 NetworkManagerConsole.java
04/15/2002	02:51p	1,976 NextButton.java
12/03/2001	01:54a	4,519 nodes.java
09/24/2002	08:43p	13,565 NotificationManagerConsolejava
03/24/2002	04:23p	55,593 oldClient.java
12/16/2002	12:49p	7,028 OpenGamePanel.java
12/16/2002	01:47p	25,208 OpenSeatAnnounce java
04/22/2003	11:47a	4,963 OpenSeatMaintenanceThread.java
01/08/2003	01:37p	70,751 PCkeyBoard.java
03/17/2002	02:33a	2,064 pda.java
03/19/2002	05:15p	613 PDAscreenSize.java
01/28/2003	11:46p	9,185 PlayerBasicSearch. java
02/20/2002	05:45p	7,825 PlayerCard.java
11/04/2002	06:19p	11,284 PlayerCashPaneljava
11/04/2002	06:19p	11,415 PlayerChipPaneljava
11/04/2002	06:19p	2,304 PlayerGameButton.java
02/05/2003	02:04a	9,165 PlayerGamePanel.java
01/28/2003	05:00p	10,369 PlayerHistoryViewjava
12/17/2002	06:23p	28,306 PlayerManagerConsole.java
02/05/2003	02:06a	5,682 PlayerPanel java
11/04/2002	06:19p	2,307 PlayerSeatButton.java
11/04/2002	06:19p	4,254 PlayerSummaryPanel.java
05/29/2002	06:01p	2,309 PlayerTableButton.java
09/11/2002	12:12a	5,884 PlayerVerificationTicketLayout.java
04/15/2002	02:51p	2,576 PokerTableButton.java
02/04/2002	09:42p	3,109 Print2DGraphics.java
09/24/2002	08:43p	15,847 PrintCreditRequestReceipt.java
02/26/2002	12:44p	5,367 PrinterTest java
09/24/2002	08:43p	15,922 PrintFillRequestReceipt.java
02/04/2003	12:15p	3,281 PrintJob java
09/13/2002	06:24p	6,170 PrintPlayerVerificationTicket.java
05/17/2002	02:36p	18,734 PrintTournamentTicket.java
01/14/2002	06:09p	4,511 progress java
12/16/2002	01:19p	6,904 PropertyLoaderThread.java
01/02/2002	06:44p	3,491 PropertyReader.java
12/16/2002	01:47p	11,541 PublicSeatingAnnouncejava
04/22/2003	11:47a	4,976 PublicSeatingMaintenanceThread.java
04/10/2003	02:19p	5,184 QueryParametersjava
08/02/2002	01:45p	11,073 RatingChipPanel.java
11/04/2002	06:19p	2,313 RatingCurrencyJButton.java

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Creation Date and Time		SIZE FILENAME
02/05/2003	02:07a	4,555 RatingGamePanel.java
12/17/2002	06:29p	4,473 RatingJPanel.java
12/17/2002	06:31p	11,547 RatingManagerConsole.java
02/05/2003	02:06a	5,682 RatingPanel.java
11/04/2002	06:19p	2,501 RatingPlayerInfoJPanel.java
02/05/2003	02:07a	10,238 RatingPlayerPanel.java
11/04/2002	06:19p	2,307 RatingSeatButton.java
12/17/2002	06:32p	3,176 RatingSeatsJPanel.java
11/04/2002	06:19p	3,593 RatingSummaryPanel.java
11/04/2002	06:19p	2,309 RatingTableButton.java
12/17/2002	06:34p	3,125 RatingTablesJPanel.java
04/09/2002	01:46p	3,458 ReadComl.java
11/04/2002	06:19p	696 RemoteUpdate.java
09/13/2002	07:26p	12,967 ReportManagerConsole.java
05/22/2002	09:09p	22,971 RobotManagerConsole.java
11/04/2002	06:19p	1,848 RoundButton.java
01/28/2003	11:32p	3,063 SearchColumnHeader.java
06/13/2002	09:08p	2,726 SearchLDAP.java
04/15/2002	02:51p	2,392 SeatButton.java
12/17/2002	06:25p	3,193 SeatsJPanel.java
11/04/2002	06:19p	13,668 SecurityManagerConsole.java
05/29/2002	05:53p	1,792 SecuritySession.java
05/20/2003	02:20p	14,641 SendMail.java
04/22/2003	04:50p	594 server.properties
12/05/2001	07:25p	1,086 ServerAlive.java
05/20/2003	11:05a	8,905 ServerPropertyLoaderThread.java
04/11/2003	04:40p	3,264 SimpleHTTPServer.java
04/09/2002	02:33p	3,274 SimpleRead.java
04/09/2002	12:04p	3,149 SimpleWrite.java
11/04/2002	06:19p	1,849 smallButton.java
12/05/2001	11:33p	1,192 socketTest.java
11/04/2002	06:19p	4,472 Splash.java
05/28/2003	10:27p	0 srclist.txt
12/17/2002	06:27p	3,177 StakesJPanel.java
01/02/2002	04:48p	385 StartClientApp.Java
11/04/2002	06:19p	543 startLogonScreen.java
08/26/2002	07:30p	667 startManagerConsole.java
11/04/2002	06:19p	1,629 startPDA.java
11/04/2002	06:19p	556 startRobotManagerDemo.java
04/15/2002	02:51p	1,940 StatusLabel.Java
05/27/2003	03:37p	199,640 StructuredQuery.Java
05/29/2002	10:14a	2,662 SwipeCardFocusThread.Java
12/05/2001	11:47p	487 SystemCheck.Java
11/04/2002	06:19p	1,955 SystemClock.java
04/15/2002	02:51p	1,924 SystemExitButton.java
11/04/2002	06:19p	4,788 SystemInit.java
09/24/2002	08:44p	9,978 SystemManagerConsole.java
11/04/2002	06:19p	480 SystemProperties.java
02/15/2002	09:44p	6,066 tablechoice.java
12/17/2002	06:28p	3,226 TablesJPanel.java
11/04/2002	06:19p	50,355 TableTron.java
05/20/2003	03:06p	26,045 TableTronApplicationServer.java
05/20/2003	02:39p	8,559 TableTronServerMultiThread.Java
09/13/2002	07:43p	12,890 TemplateManagerConsole.java
02/28/2002	04:47p	4,561 test.java
11/04/2002	06:18p	551 testCalculator.Java
11/04/2002	06:18p	587 testCasinoManager.java
04/09/2002	01:00p	336 testComPort.java
11/04/2002	06:19p	590 testDatabaseSystem.java
12/22/2000	10:02a	1,702 TestDataSource.java
08/26/2002	04:37p	665 testFooter.java
03/12/2003	02:43p	669 testLegend.java
11/04/2002	06:19p	459 testList.java
11/04/2002	06:19p	520 testMarquee.java
08/02/2002	01:45p	693 testMultiAdd.java
03/07/2002	04:13p	460 testOracle.java
01/28/2003	05:07p	722 testPlayerBasicSearch.java
11/04/2002	06:19p	540 testPlayerManager.java
11/04/2002	06:19p	18,677 testPrint.java
09/11/2002	12:16a	650 testPrintPlayerVerificationTicket.java
11/04/2002	06:19p	548 testPropertyLoader.java
11/04/2002	06:19p	540 testRatingManager.java
04/23/2002	01:35a	684 testRobot.java
11/04/2002	06:19p	549 testRobotManager.java
03/15/2002	08:01p	6,270 testt.java
04/15/2002	02:51p	1,276 threadedClockLabel.java
04/15/2002	02:51p	1,266 threadedDateLabel.java

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Creation Date and Time		SIZE FILENAME
11/18/2002	01:55p	20,568 TitanServer.java
04/15/2002	02:51p	1,974 TotalButton.java
03/12/2002	04:05a	1,829 TotalsButton.java
09/24/2002	08:44p	12,673 TournamentManagerConsole.java
07/25/2002	12:09p	2,367 TournamentMenuButton.java
03/06/2002	11:18p	3,688 TourneyTicket.java
11/04/2002	06:19p	2,686 TourneyNode.java
11/04/2002	06:19p	1,526 WatchPanel.java
01/10/2002	01:15p	9,342 XMLParser.java
01/23/2002	08:53p	180 xValue.java
01/23/2002	08:51p	489 yValue.java
225 File(s) 1,787,248 bytes		

BACKGROUND

A casino or other gaming environment can have poker rooms, table games (e.g., Blackjack, Roulette, Craps), slot machines and other gaming devices which customers pay to play. Casino games usually involve a Dealer, one or more Player(s), and some oversight by a person such as Floor Person, Shift Manager, and/or Pit Boss.

Poker rooms are frequented by Players who play poker at tables against other Players. To play a game at a table in a poker room, Players are placed upon waiting lists by Clerks and are called (by voice, or microphone) once their opportunity to enter a game arises. Clerks maintain a waiting list via pencil, pen, and paper methodology.

Casinos sometimes offer Players compensation for playing. Floor Persons are responsible for oversight of Players' durations and level of play. At times, the table at which a game is being played may require support. Some forms of support include: restocking betting chips, recording financial standings, security monitoring, and closing down games. Support operations may require the assistance of the Floor Person. Dealers may deal the playing cards for a specified duration. Dealers often participate in rotations that require them to shift tables of service. Dealer rotation scheduling, maintenance, and oversight are provided by the Dealer Coordinator (DC).

Table Games (e.g., Blackjack, Roulette, Craps), much like poker games, involve a Dealer, Player(s), and some level of supervisory oversight by a person such as a Pit Boss. Table games also operate similar to poker rooms in that players receive compensation for play. Such dealers likewise engage in rotations, and Tables where the table games are played require support.

FIGURES

FIG. **1** is an illustration of a graphical user interface, shown at an initial display in accordance with an embodiment.

FIG. **2** is a Use Case Diagram of an overview of an embodiment.

FIG. **3** is a schematic illustration of the Application Service Provider architecture of an embodiment.

FIG. **4** is a schematic illustration of the network architecture of an embodiment. FIG. **5** is a flow chart of a process of an overview of an embodiment.

FIG. **5** is a flow chart of a process of an overview of an embodiment.

FIG. **6** is a set of examples of how various embodiments of this invention may operate.

FIG. **7** is an illustration of a graphical user interface, shown at the View Tournament feature of the embodiment.

FIG. **8** is a flowchart illustrating an embodiment of a process for deleting a tournament.

FIG. **9** is an illustration of an example of graphical user interface for Network Manager module.

FIG. **10** is an illustration of an example of graphical user interface for Report Manager module.

FIG. **11** is an illustration of an example of graphical user interface for Security Manager module.

FIG. **12** is a Use Case Diagram of a System Login operation.

FIG. **13** is a flowchart illustrating an embodiment of a process for a System Login operation.

FIG. **14** is an Activity Diagram for an embodiment of a process for a System Login operation.

FIG. **15** is an illustration of an example of graphical user interface for Casino Manager module.

FIG. **16** is a flowchart of a process for initiating Casino Manager functions.

FIG. **17** is an illustration of an example of graphical user interface for Rating Manager module.

FIG. **18** is an illustration of an example of graphical user interface for Player Manager module.

FIG. **19** is a flowchart illustrating an embodiment of a process for a Player Check Out function.

FIG. **20** is another flowchart illustrating an embodiment of a process for a Player Check Out function.

FIG. **21** is an Activity Diagram for an embodiment of a process for a Player Check Out function.

FIG. **22** is an illustration of the printed hard copy receipts for an embodiment of a process for a Player Check In and Check Out operations.

FIG. **23** is an illustration of an example of graphical user interface for Game Manager module.

FIG. **24** is a flowchart illustrating an overview of an embodiment for Game Manager.

FIG. **25** is a Use Case Diagram of an Open Table operation.

FIG. **26** is a flowchart illustrating an embodiment of a process for an Open Table operation.

FIG. **27** is another flowchart illustrating an embodiment of a process for an Open Table operation.

FIG. **28** is an Activity Diagram for an embodiment of a process for an Open Table operation.

FIG. **29** is a Use Case Diagram of a Close Table operation.

FIG. **30** is a flowchart illustrating an embodiment of a process for a Close Table operation.

FIG. **31** is another flowchart illustrating an embodiment of a process for a Close Table operation.

FIG. **32** is an Activity Diagram for an embodiment of a process for a Close Table operation.

FIG. **33** is an illustration of an example of graphical user interface for List Manager module.

FIG. **34** is an illustration of an example of graphical user interface for the virtual keyboard operation.

FIG. **35** is a flowchart illustrating an overview of an embodiment for List Manager.

FIG. **36** is a Use Case Diagram of an Add Player operation.

FIG. **37** is a flowchart illustrating an embodiment of a process for an Add Player operation.

FIG. **38** is another flowchart illustrating an embodiment of a process for an Add Player operation.

FIG. **39** is an Activity Diagram for an embodiment of a process for an Add Player operation.

FIG. **40** is a flowchart illustrating an embodiment of a process for a Delete Player operation.

FIG. **41** is another flowchart illustrating an embodiment of a process for a Delete Player operation.

FIG. **42** is an Activity Diagram for an embodiment of a process for a Delete Player operation.

FIG. **43** is a Use Case Diagram of an Insert Player operation.

FIG. **44** is a flowchart illustrating an embodiment of a process for an Insert Player operation.

FIG. **45** is another flowchart illustrating an embodiment of a process for an Insert Player operation.

FIG. **46**A is an Activity Diagram for an embodiment of a process for an Insert Player operation.

FIG. **46**B is a flowchart illustrating an embodiment of a process for a Lockup Player operation.

FIG. **46**C is another flowchart illustrating an embodiment of a process for a Lockup Player operation.

FIG. **46**D is an Activity Diagram for an embodiment of a process for a Lockup Player operation.

FIG. **46**E is a flowchart illustrating an embodiment of a process for a Lockup Public Seat operation.

FIG. **46**F is another flowchart illustrating an embodiment of a process for a Lockup Public Seat operation.

FIG. **46**G is an Activity Diagram for an embodiment of a process for a Lockup Public Seat operation.

FIG. **47** is a Use Case Diagram of a Multiple Add operation.

FIG. **48** is a flowchart illustrating an embodiment of a process for a Multiple Add operation.

FIG. **49** is another flowchart illustrating an embodiment of a process for a Multiple Add operation.

FIG. **50** is an Activity Diagram for an embodiment of a process for a Multiple Add operation.

FIG. **51** is a Use Case Diagram of a Marquee Display operation.

FIG. **52** is a flowchart illustrating an embodiment of a process for a Marquee Display operation.

FIG. **53** is another flowchart illustrating an embodiment of a process for a Marquee Display operation.

FIG. **54** is an Activity Diagram for an embodiment of a process for a Marquee Display operation.

FIG. **55** is a Use Case Diagram of a Profanity Checker operation.

FIG. **56** is a flowchart illustrating an embodiment of a process for a Profanity Checker operation.

FIG. **57** is another flowchart illustrating an embodiment of a process for a Profanity Checker operation.

FIG. **58** is an Activity Diagram for an embodiment of a process for a Profanity Checker operation.

FIG. **59** is a Use Case Diagram of a Duplicate Checker operation.

FIG. **60** is a flowchart illustrating an embodiment of a process for a Duplicate Checker operation.

FIG. **61** is another flowchart illustrating an embodiment of a process for a Duplicate Checker operation.

FIG. **62** is an Activity Diagram for an embodiment of a process for a Duplicate Checker operation.

FIG. **63** is a Use Case Diagram of a Public Seating operation.

FIG. **64** is a flowchart illustrating an embodiment of a process for a Public Seating operation.

FIG. **65** is another flowchart illustrating an embodiment of a process for a Public Seating operation.

FIG. **66** is an Activity Diagram for an embodiment of a process for a Public Seating operation.

FIG. **67** is an illustration of a graphical user interface, shown at the Security Manager Logs screen.

FIG. **68** is an illustration of a graphical user interface, shown at the PDA Notification screen.

FIG. **69** is an illustration of a graphical user interface, shown at the Network Manager screen.

FIG. **70** is an illustration of a graphical user interface, shown at the Notification Manager Send screen.

FIG. **71** is a flowchart illustrating an embodiment of a process for an Initials Search operation.

FIG. **72** is an Activity Diagram for an embodiment of a process for an Initials Search operation.

FIG. **73** is an illustration of a graphical user interface, shown at the Initials Search result screen.

FIG. **74** is a flowchart illustrating an embodiment of a process for a Reserve Player operation.

FIG. **75** is an Activity Diagram for an embodiment of a process for a Reserve Player operation.

FIG. **76** is an illustration of a graphical user interface, shown at the Reserve Player function screen.

FIG. **77** is a flowchart illustrating an embodiment of a process for Average Wait Time operation.

FIG. **78** is an Activity Diagram for an embodiment of a process for Average Wait Time operation.

FIG. **79** is an illustration of a graphical user interface, showing Average Wait Time displays.

FIG. **80** is a class diagram of the process for Monitoring List & Queue updates.

FIG. **81** is a flowchart illustrating the process for client socket communications to the application server.

FIG. **82** is an illustration showing the Dealer Coordinator actors and functions.

FIG. **83** is a diagram of the process for Dealer Rotation.

FIG. **84** is an illustration of a graphical user interface, showing the View Rotation screen.

FIG. **85** is an illustration of a graphical user interface which shows Rating Manager displays on PDAs.

FIG. **86** is an illustration of a graphical user interface, showing the Player Manager Expert View screen.

FIG. **87** is an illustration of a graphical user interface, showing the Dealer Coordinator Create Rotation screen.

FIG. **88** is an illustration of a graphical user interface, showing the Dealer Coordinator Re-Assign screen.

FIG. **89** is an overview of a process according to an embodiment of this invention.

DETAILED DESCRIPTION

Some embodiments of this invention enable a casino or other establishment to implement, manage, and/or report on crucial operations involved in the casino or gaming environment. The term "casino" is used in this application as a convenient description of an environment in which embodiments

of the invention may be deployed. However it will be apparent that many other, non-casino environments are suitable as well.

Terms used in this application include:

Player: any person who plays a game.

Dealer: someone, such as a casino employee, who services one or more Player(s) at a game table.

Floor Person: someone, such as a casino employee, who supervises the overall play and operation of a table or group of tables where games are played.

Clerk: someone, such as a casino employee, who operates and manages the placement of Player(s) for games, e.g., with waiting lists.

Cage: a location for storing, e.g., cash, chips, tokens, and other valuables. Pit: The name designated for a group of tables.

System: a device according to one or more embodiments of this invention.

Embodiments of this invention may be implemented as a suite of computerized software tools linked together to provide real-time operational support for casino or gaming hospitality functions through the use of electronic devices. The electronic devices can include devices in fixed locations and/or wireless devices which are more mobile. The electronic devices selectively communicate with each other and with centralized electronic devices, including servers.

The software and electronic devices are referred to collectively as the "system", for convenience. In some embodiments of this invention, the system can provide electronic interfaces and reporting capability. It will be apparent that, although certain types of devices are described in this application, many other types are appropriate for implementing embodiments of this invention.

This invention may be implemented in any of a large number of embodiments, some of which are described below, and others of which will be apparent to the reader. Some embodiments of the invention may provide some or all of the following benefits:

(1) Displaying the availability and location of games, such as table games in a casino.

(2) Facilitating the creation, modification and visual display of tournament games, such as poker or other tournaments in a casino or other venue. In tournaments, which employ tickets (e.g. to identify players), randomized tickets can be automatically generated. In tournaments where money or other tokens of value are employed, entry fees, re-buys, payouts, awards and other uses of such tokens of value may be calculated according specified business rules.

(3) Facilitating the registration of players for table games. Customers or customer data may be identified through various known mechanisms, including barcode reading and/or magnetic stripe scanning, thus allowing customer resource management data to be received and processed (e.g. by casino management or other interested parties).

(4) Maintaining, processing and displaying sets of data about customers, such as customer lists and queues of customers waiting for various games, tables for games, or other resources. Players may be dynamically added, deleted and moved on lists at the request of various authorized users of the system. Such data may be processed to yield information, including estimated, predicted or actual wait times for games, tables or other resources, as well as types of customers represented by the lists.

(5) Facilitating the calculation of compensation points and providing persistent and/or temporary storage of this information. This information may be utilized in various ways, including displayed at the request of a customer, game manager, or other entity, emailed to the customer or printed for verification.

(6) Providing a visual display of game information, including active and inactive tables, the current dealer at an active game, which registered players are sitting at specific seats and win/loss statistics for tables. Such information may be utilized by, e.g. casino management and regulatory authorities. This allows players to see this information easier, and does not require casino employee interaction.

(7) Automating manual accounting processes, such as table credits, table fills and customer markers, thus increasing accuracy and allowing other processing of such information.

Some embodiments of this invention use wireless technology, hand-held computers, networking and persistent storage in a relational database to facilitate or perform various functions.

The method and apparatus of various embodiments may employ the Internet as well as conventional communications systems such as Integrated Voice Response (IVR), self-service environments (kiosks) and cross-marketing opportunities.

Embodiments of this invention may be implemented as a suite of object-oriented software applications, using open software standards and compatible with open computer hardware platforms and architectures. When implemented in a modular nature, solutions for individual entities (e.g. casinos and hospitality operations) may be customized more easily. Further, as is well known, portions of a modular system may more easily be used separately from other portions. Therefore, various modules described in this application may be used alone, or in conjunction with other modules.

In some embodiments, various activities of a casino or hospitality establishment may be managed. Many other environments are equally suitable to this invention.

Benefits of certain embodiments are increased customer satisfaction, increased employee accountability, increased operational efficiency and reduced incidence of fraud.

The description in this application provides sufficient information for a person of ordinary skill in the art to implement a great many embodiments of the invention. In particular, this application uses standard industry notation such as Unified Modeling Language (UML), Use Case diagrams, Process Charts and Activity Diagrams in order to provide detailed guidance on design and implementation. Further, the functionality and architecture of various modules is also decomposed and described in terms of subparts to facilitate understanding, replication and customization.

The enclosed source code, which may be used to practice embodiments of this invention, is described in detail below.

Several system modules (also referred to as "Managers") are described in this application. Each module supports different features, and any or all of the modules may be organized and run as a single program, if desirable. The modules can interact with each other to ensure real-time functionality. The program can be accessed from several different computing platforms, including: a personal computer, wireless hand-held device or PDA (personal digital assistants including the PALMPILOT™ by Palm Inc., the BLACKBERRY™ by Research In Motion Limited, the iPaq PocketPC™ by Hewlett-Packard Company), computer tablet, and a traditional or cellular telephone. Data may be input using known devices and methods such as touch screen, keyboard, buttons,

mouse, voice recognition, and stylus pen. The system can record transactions that the system processes. This recording of transactional data can permit the generation of historical reports, as well as operate in real-time mode.

FIG. 1 shows a user interface, which is displayable on a display device (e.g., computer monitor) in a well known manner. The user interface includes twelve buttons, six on the left and six on the right. Each button (when activated by a user in a manner which is well known) initiates the functions of one of the managers. Of course, more or less than twelve buttons could be included in the user interface. Similarly, the functions of any of the managers could be initiated in many other ways using known graphical user interface techniques.

FIG. 2 shows a Use Case Diagram in which a program (referred to as "TableTron") according to an embodiment of this invention communicates with six other actors, or entities. One such actor is a player. Other entities are typically casino employees (orothers responsible for related operations), such as an administrator, a floor manager, a casino clerk and a shift manager. Another entity, the system, can refer to one or more other software and/or hardware systems. For example, the program may communicate with other casino computer devices, such as hotel devices, restaurant devices, and devices that calculate player compensation. In other embodiments, however, the embodiments that are described in this application can actually constitute a part of such devices.

The system may be organized in a three-tiered architecture consisting of an application tier, middle tier, and back office tier. For redundancy, there may be redundant application servers and redundant copies of databases. FIGS. 3 and 4 show possible configurations of a three-tier architecture. However, many other configurations will be readily apparent, and as is well known software can be efficiently run on many other architectures, such as single tier and double tier architectures.

In an Application Tier, a client environment runs on, e.g., standalone personal computers or handheld mobile wireless devices ("PDAs"—Personal Digital Assistants). In a Middle Tier, application main services run on dedicated computers referred to as Application servers. The application servers act as the main engine serving the requests of the clients and handling communication to the database servers in a well known manner. In a Back Office Tier, data resides in databases on database servers. The database servers are computer devices that store the data used in the program.

The Back Office Tier and Middle Tier can implement redundancy by performing data copying, synchronization and load balancing, as is well known. The Application Servers and Database Servers can be run separately (i.e. Application Server communicating with a dedicated Database Server), or the database can be embedded within the program itself where the system will run on a combined Application/Database Server. In some embodiments, data copying, synchronization and load balancing can be performed at the Application Server level.

The software described in this application can be run, accessed, and managed in a standalone fashion. In such a standalone setup, the computer equipment which is involved with running, accessing, and managing the program resides in a single location, such as in-house at a casino or otherwise on the customer's premises.

The software may also be run and executed by using an Application Service Provider. As is well known, this type of infrastructure permits users of the software program to run the application tier without incurring the cost or maintenance of the middle and back office tiers. Clients (e.g., PDAs and other computer devices in a casino) connect to the middle and back office tiers via the Internet, private communication line, or wireless satellite access. The connections can utilize enhanced security methods such as VPN (Virtual Private Network) and CA (Certificate Authority) technologies. Virtual Private Network are described in "VPNs: A Beginner's Guide" by John Mairs and Michael Mueller. Certificate Authority is described in "Digital Certificates: Applied Internet Security" by Jalal Feghhi and Peter Williams.

The Application Service Provider controls the maintenance and monitoring of the three tiers. The Application Service Provider can maintain an enhanced data center that provides redundancy and security for connecting clients.

FIG. 5 illustrates a process for using the program to initiate any of a number of the managers. As is seen from the top portion of FIG. 5, an actor who starts the program may select any of a number of options to initiate one of the managers. As is seen from the bottom portion of FIG. 5, various actors may interact with the managers as previously described with respect to FIG. 2.

FIG. 6 illustrates several examples of different actors interacting with different managers. Text beneath each of the examples describes precisely how the actor is interacting with the specified manager.

Detailed Module Descriptions

Below several managers are described, as are functions which constitute parts of those managers. The functions may be activated in many known ways (e.g., when a user presses a particular physical or graphical button).

Tournament Manager:

Tournament Manager is a module which allows certain personnel to create, delete, modify, and view tournaments. Tournament Manager interacts with a database (which stores tournament information) to edit and update data in real-time. Many system features of tournament manager run behind the scenes away from the view of common users, players, and casino patrons. Tournament Manager can utilize wired devices and/or wireless network devices, as well as other peripherals to perform the following functions.

"Create Tournament"

Create gaming tournaments based on a set of parameters that are chosen during the creation process. Such parameters may be, for example, date and time, entry fee amount, number of tables, number of players. The system stores all tournament information and generates a unique identifier (ID) for each tournament. The tournament data is stored in the database.

"Modify Tournament"

Modify any existing tournaments that have previously been saved to the system. Modify values such as number of tables, seats, buy-ins, re-buys, entry fee, date, etc.

"View Tournament"

FIG. 7 shows a graphical user interface which is presented to a user when the View Tournament feature of the Tournament Manager is initiated. As seen in this graphical user interface, various data related to the tournament may be display to the user. Such data includes, for example, start time of the tournament, buy-in, entry fee, rebuys, total number of players in the tournament, seats available in the tournament, and total purse of the tournament. Other data which can be displayed may include, for example, the prizes won by various winners, the tables remaining for the tournament, the players remaining for the tournament, and break time remaining for the tournament.

The "View Tournament" function can display active, past, and/or future tournaments. The "View Tournament" function also displays data such as tournament start time, number of tables in tournament, seats available/not available for this tournament, buy-ins, re-buys, entry fee, winners, payout cal-

culator and date of tournament. The "View Tournament" function also serves as a visual guide for players throughout the tournament, allowing players to track their process and the progress of other players. Both players and operational personnel of the tournament can have a graphical view of the tournaments status from start to finish.

"Delete Tournament"

Delete any specified tournaments in the system. Deleting tournaments deletes the tournament from an active or pending play status. The tournament does not get deleted from the database allowing management to run reports on active, completed, pending, modified and deleted tournaments.

FIG. **8** illustrates a flowchart describing a process for deleting a tournament.

"Tournament Payout Algorithm"

Calculates the running total of the tournament payouts based upon number of entries in the tournament and any desired payout algorithms for specific winning placements. Management and system users may modify payout algorithms as they see fit by storing rules/data which define the payout algorithm.

"Convergence of Tournament Tables"

Calculates the number of contestants remaining in the tournament and automatically moves contestants to new tables to ensure table capacity and free up unused table space for non-tournament patrons. While a tournament is active, the system users can modify the tournament by selecting how many and which players remain in the tournament. Once the system collects this information, it can automatically adjust the seating arrangement of players to conserve seats.

"Tournament Tickets"

A function that allows the printing of specialized unique tournament tickets for given tournaments. Replaces the method of ordering bulk tickets and carbon copy forms. This feature gives the establishment the ability to create custom tickets on demand.

Many types of printers will be recognized as appropriate to print such tickets, including BOCA or PRACTICAL AUTOMATION thermal printers. Similarly, many types of papers will be recognized as appropriate for use with such printers and for such a purpose, including "thermal tag stock" paper.

Unique system IDs and barcodes may be printed on the tickets, which can render duplicated tickets ineffective, and which can therefore help verify legitimate players' claims to specified tournament prizes or tournament entries. Tournament tickets may also be used to present promotions and marketing material printed on the tickets. For example, many types of offers and advertisements may be printed on the tickets, and the types of offers/advertisements can change with time, be different for different players, for different tournaments, for different types of players, etc.

"Tournament Up-Sell"

A marketing feature that permits the up-sell of establishment goods and services to be presented to tournament contestants. The up-sell may be used on tournament tickets or in the registration process of a tournament.

"Tournament Bracket Display"

A visual display of all registered contestants, seating assignments, and tournament statistics. Allowing contestants to view to current tournament progress. The visual display of active players, seat arrangements, and which players are leading the tournament.

"Free Roll Transfers"

A method for transferring free-roll applicants of a desired tournament. Free-roll tournaments are those in which there is no buy-in or entry fee. The system allows players to qualify and be transferred to tournaments via free-roll.

"Satellite and Double Elimination Tournament Support"

Satellites are tournaments in which the winner earns a buy-in into a larger tournament. The system automatically registers the winners of satellites with the desired tournament of choice.

System Manager:

The System Manager includes features by which administrators can set certain parameters which instruct the system how to respond and run under certain circumstances. The System Manager allows establishments to customize the program directly to their needs. By providing a centralized management console, System Manager provides the basic structure for the deployment.

"Help Menu"

An interactive help menu system designed to give users of the system assistance to all available modules and features. The help menu is designed to be accessible from any point in the program. The help menu incorporates both text assistance as well as recorded animation of the procedures to run the system. Users can search for help via text, voice, or video.

"View System Status"

A visual display for system administrators to determine the system's status. Allows administrator to see on- or off-line statuses of devices, users, and features. System administrator may also view licensing, contact, and support information.

"Set System Parameters"

Permits administrators to set specific business rules within the system such as notifications, displays, table rules, etc. These system parameters are used throughout the system to assist the automated functions that the system performs such as payouts, compensation points, etc.

"Set Marketing Parameters"

Helps administrators set marketing and up-sell parameters for the system to use for specific dates and times. Setting these parameters and values tells the system when and where to display the marketing information and for how long.

"Set Security Parameters"

Permits system administrators to set the security parameters for the system in regards to user access, data encryption, network device access, and notification procedures.

"View System Contacts"

A comprehensive list of system and vendor contacts, emergency contact procedures, and support contact procedures.

"QueueCache"

QueueCache is a data-buffering feature which enables all three tiers (in a three-tiered embodiment) to utilize an enhanced fail-safe software measure. QueueCache allows the buffering of data to provide performance and recovery from potential communication outages. QueueCache uses various known algorithms that protect against the potential loss of data. Both the clients and application servers consistently monitor and communicate the status of the communications network. In the event of a communications failure at any point in the network, the clients and application servers buffer or store their data locally to that device. Upon communication re-establishment the systems transmit their buffered or stored data first to ensure no data loss and correct sequencing of data.

"Web Connector"

A method for posting designated internal system parameters (e.g., List Manager View Display) to an internet/intranet website or forum. Web Connector is utilized for the technical support of the program. The program is designed to generate proactive system monitor logs and using the web connector can send the specified logs automatically without user intervention to the program support group. The industry standard protocols used for the Web Connector are SMTP (Simple Mail Transport Protocol—for email) and HTTP/S (Hyper

Text Transfer Protocol/Secure). The Web Connector enables the system to gather custom specified data and send or transfer that data to desired users, groups, or other email systems. The Web Connector may be constructed using industry standard protocols as the network transports. An example use of the Web Connector would be: if a computing device had a communications failure, the application server would use the Web Connector to gather, format, and send the alert data to pre-specified destinations.

"Web Publisher"

A design template for preparing specified internal system information such as player information & game information to be posted to the web connector agent for intranet/extranet viewing. The Web Publisher acts as the gathering and formatting tool for the Web Connector. The Web Publisher job is to gather the data from the database, format the data into the correct structure for transmission, and handoff the packet to the Web Connector for transport. Web Publisher defines a set of rules that tell the system when, where, and how to get the information prepared for transit.

"Electronic Display Driver Support"

A specialized serial interface to communicate directly to electronic displays, such as the Trans-Lux™ electronic display. The system contains software drivers that allow displayed data to be viewed on different hardware appliances. The program detects which display hardware is being used, and performs formatting of the data to be displayed correctly on the type of display being used. The system also provides an interface mechanism to "write" the data to the display in the correct manner since different displays may require a different manner to which data is received.

"Voice Activation and Response Unit"

The system utilizes voice activation commands and a voice recognition engine to decipher those commands. The voice activation process allows users to speak commands into either a telephone, or computing device which the system then interrupts and processes the commands. The voice response unit allows system users to "call" into the system via a telecommunication device (telephone or computing device) and receive automated voices responses to the desired information.

"Embedded Applications Download"

To ensure the protection against software piracy, the system uses a download method of attaining the appropriate program files to run the program (both application server and clients). Upon start-up the application server and/or clients query a "system appliance" device located either on- or off-site. The system appliance validates the machine and downloads the program files to the machine's memory store. The machine then runs the program out of memory, thus limiting the amount of files and potential piracy associated with storing program files on the machines itself. The "system appliance" also serves as an update devices where the application server and/or clients query the appliance at scheduled times to locate any program file updates (such as patches and new program versions).

"Knowledge Base with Decision Rule Maker"

The system houses a standardized set of gaming rules which allows systems users to query the system for house or industry standard gaming rules. In the event of a player-house conflict, the user may query the knowledge base to determine what the standard rules are to resolve the conflict. The system may also suggest a solution based upon a history tracking table of rule conflicts. The system attempts to standardize the rules so that users and players have clear solution in the event of a conflict.

"Database Synchronizer"

The Database Synchronizer allows administrator to synch or create a replica of the system's database on any other industry-standard relational database. Establishments may wish to synchronize the system's database with another in-house database for purposes of backup, recovery, or reporting. Internally, the system automatically synchronizes with a secondary database if two or more application servers exist.

"Credit Card Processor Engine"

The system has a built in credit card processing unit that allows patrons to pay for services via credit cards, which are either entered or stored in the system. The application server will make the appropriate communications uplink to an authorized bank or processing facility to complete all credit cards related transactions.

"Legacy Agent Robot"

The legacy agent feature communicates to back-end existing systems such as AS400 or ACSC patron management systems. Using both screen scrapping (a technique that maps out the coordinates on a computer terminal screen, writes information to the appropriate fields and sends the data as if a manual entry was conducted) and socket based connections, the system can accurately upload data to existing back-end systems. The two methods are used to update existing systems, provide replica data, and eliminate manual entry of data. The screen scrapping method uses an existing upload program and acts as a virtual user entering data. The socket-based communication encapsulates the data into packets that the back-ends system can understand and transmits that data to the back-end system directly.

Network Manager:

Network Manager is designed to assist in the setup, maintenance, and support of the computer network topology through which the program communicates. Utilizing technology such as data load balancing, server redundancy, encryption, and monitoring agents enhances the program's performance. Network Manager is a management console enabling administrators to control the attributes and behaviors of their computer devices (e.g., desktops, PDAs, servers) throughout the topology. With Network Manager, administrators of the system can selectively add, delete, or modify computing devices from a virtual map layout. The devices can be aligned to form a geographical map of each device's location. Network Manager allows administrators to test device communications, ensure security mechanism are being followed, and view proactive communications monitoring. The manager provides administrators a graphical view of the devices and their statuses throughout the computer network.

FIG. **9** illustrates a graphical user interface which is displayed upon initiating the Network Manager.

"Add Network Device"

Adds a network device to the system topology to be used and monitored.

"Modify Network Device"

Modify an existing network device in the system topology.

"Delete Network Device"

Delete a network device from the system topology.

"View Network Device Status"

A real-time display of all networked computing devices that reside in the system. Providing device status, uptime, and any alerts to the health of the device. An example of such a display is shown in FIG. **69**.

"Workstation Manager"

Allows administrators to remotely control the workstations (e.g., personal computer devices) that make up the system

topology. The feature allows the ability to run certain procedures remotely to maintain the status of each personal computer device.

"Wireless Manager"

Provides the system administrator to control the flow and redundancy of data transmissions throughout the wireless portion of the system topology. The wireless manager maintains industry standard 802.11b wireless protocol technology. Wireless managers also allow management personnel to pinpoint the location of their wireless devices anywhere within the wireless range.

"Infrastructure Manager"

Allow administrators to control remotely the infrastructure devices that make up the system topology communication segments. The feature allows the ability to run certain procedures remotely to maintain the status of each device.

"Ping Network Device"

An industry standard tool for testing the connectivity to a networked device.

"Integrated Locator System (ILS)"

Integrated Locator System allows management personnel to pinpoint the location of their wireless devices anywhere within the wireless range.

Template Manager:

Template Manager eases redundant system resources and procedures by providing the ability to use resource templates. With templates, administrators can quickly and easily maintain other areas of the program and quickly increase the establishments' productivity. Template Manager allows administrators and users of the system to quickly create, delete, and modify a pattern or structure applicable to many system resources. Template Manager can be used throughout all system modules and may also be protected by permission set forth by administrators. For example, a poker room manager would have the ability to create a template for upcoming tournaments which would include the pre-configured date, time, amount, entry fees, table number, etc.

"Create Template"

Create a new template for a system resource.

"Modify Template"

Modify an existing template for a system resource.

"Delete Template"

Delete a specified template.

"Print Template"

Print a specified template to a local or networked printer.

Report Manager:

Report Manager allows authorized personnel to view real-time and historic data. The Report Manager may be enabled to be constantly active, thus ensuring real-time capability. By utilizing event-triggered methods, the real-time status of an establishment's areas of business may be ascertained. The report Manager incorporates different features in which the data is formatted and delivered to the inquiring parties. Report Manager can use predefined reports. Additionally, individually customized reports can be created by users. Report Manager actively searches the database for the records and data need to complete the report query and returns the results back to the user in graphical format. Report Manager has an automated scheduling system in which reports may be set up and run without any user intervention.

FIG. **10** illustrates a graphical user interface which is displayed by Report Manager. That user interface displays a report which includes several items pertaining to the status of a Pit ("Pit **2**").

"Real-Time Reports"

Utilizing structured update calls, the system provides clients real-time reporting capability on specified data chosen by the user.

"Historical"

Historical reporting provides users of the system access to historical data stored by the system in the database. Allowing users to query data on a specified set of parameters for any past date and time.

"Automated Reports"

Methods in which a real-time report can be sent via electronically or printed after certain predefined parameters trigger the reporting event. Electronic messages can be sent, e.g., via e-mail, instant message, pager, or voice mail.

"Slot Attendant"

The Slot Attendant function allows system users to view reports of slot machines. Information gathered such as cash contained, uptime, downtime, hit counters, location and maintenance records are all viewable through Repot Manager Slot Attendant.

Notification Manager:

Notification Manager is the system's alert engine. Notification Manager is a watch engine that looks for certain parameters that raise red flags in the system. These notifications may be based on business rules and/or system conditions. Notification Manager can be customized to meet an establishment's needs and priorities. Industry standard protocols may be used to alert and notify predetermined individuals of certain system conditions and business rules violations. Notification Manager allows the establishment to be notified proactively on any condition they deem to be vital. The Notification Engine utilizes the industry standard TCP/IP (Transmission Control Protocol/Internet Protocol) as the mechanism for transport. Business rules and system conditions are pre-set by system administrators. The groups, departments or destinations to which the messages are sent are also set forth by administrators. Loss of communication to a computing device is an example business rule violation that could initiate a notification message being sent to a set forth party.

FIG. **68** is an illustration of a graphical user interface, including a notification message, shown on a PDA.

FIG. **70** is an illustration of a graphical user interface which permits a user to create and send a notification. The user interface allows the user to select a recipient and corresponding message.

"Start Notification"

The "Start Notification" function starts the notification engine and begins to capture and send messages.

"Stop Notification"

Stop Notification stops or pauses the notification engine and queues up the inbound and outbound messages to a buffer pool. Once notification begins the queue is flushed and all paused messages are delivered.

"Clear Notification Log"

Enables administrators to clear or flush the notification log file where all transactions are recorded.

"View Notification Log"

Display the log of recorded transactions that the system has processed.

"Add Notification"

Add a custom notification based on a set of system parameters determined by the system administrator.

"Modify Notification"

Modify an existing notification by adding or removing parameters.

"Delete Notification"

Deletes a notification from the system.

"Set Notification Parameters"

Allows administrators to customize how and when notifications are sent and received.

"Send Message"

Permits users to send instant text and voice based messages to other devices within the system topology.

"E-mail Support"

The system feature that enables the emailing of patrons, management, or other system users data that is set forth via business rules. The system may email players compensation or play statistics, email management reports, etc.

"Web SNMP Notification Engine (WSNE)"

This feature combines the industry standard SNMP (Simple Network Management Protocol) with a web based communication protocol (HTTP/HTTPS) to send system alerts to technical support representatives via the Internet or intranet. The system allows the capture of SNMP packets, encapsulates those SNMP traps into an HTTP or HTTPS (secure) packet, and then forwards those packets to a desired destination. Upon retrieval of the packet, a small java program deciphers that packet to retrieve the SNMP trap or alert. This eliminates the need for SNMP management software by utilizing the industry standard HTTP/HTTPS web network protocols.

Security Manager:

Security Manager allows system administrators to set security policies and procedures by using an industry standard security protocol called Light Directory Access Protocol (LDAP). LDAP is described in "Understanding and Deploying LDAP Directory Services (2nd Edition)" by Timothy A. Howes, Mark C. Smith, Gordon S. Good.

Security Manager assigns security levels and privileges to individual users and groups of the system. Security Manager also establishes data encryption schemes to ensure that any transmitted data is securely encrypted and protected from outside threats. Security Manager maintains the relationship between the users of the system and the security database where access levels are granted. Security Manager supports the use of Smart Cards and Smart Card readers, an industry standard security mechanism validating the authenticity and integrity of system users. Use of Smart Cards also enables the system clients to be run using "thin client" or "dumb terminals" devices. Thin clients are devices that process all data including operating system and programs off a centralized server.

FIG. **67** is an illustration of a graphical user interface shown at the Security Manager Logs screen. The illustrated interface shows data on a number of security events, including when the event occurred, who was involved, and the severity of the event.

"System Login"

By using an industry standard authentication method (LDAP), the system login process validates a user's identity and access privileges. The method of authentication can be derived from many known mechanisms, including barcodes, magnetic stripe cards, text based passwords, voice recognition, or fingerprint recognition. Login transactions are recorded by the system for tracking, accountability, and administrative purposes. The system can easily integrate into an existing LDAP environment or provide it's own standalone authentication domain.

FIG. **11** is a sample display that is shown to a user when the user is expected to swipe a card thru a card reader, thereby identifying the user. FIGS. **12-14** illustrate a process for system login.

"System Logout"

The process by which a users logs themselves out of the system. Capturing the transaction, the system updates the user's profile with information captured during the session. Once the user is logged out of the system, the user must log back into the system to gain access.

"Add User"

Add a user to the system directory for access.

"Modify User"

Modify an existing user's profile.

"Delete User"

Delete a user from the system removing all associated access privileges.

"Disable User"

Disable a user's account where that user is not removed from the system but the user has no permission to access any area of the system.

"Active User Display"

Display for administrative personnel a real-time description of which users are active in the system and their corresponding locations of activity.

"Set User Permissions"

Provide users with different security levels which can permit or deny them access to certain areas of the system or access to certain system devices.

"Add User Group"

Allow administrators to group like users into a single group that holds certain security levels. All users included in the group follow the groups' security privileges.

"Modify User Group"

Modify the parameters of a certain user group of the system.

"Delete User Group"

Remove a user group from the system.

"View User"

Display showing the profile of a specified user, including personal information, security level, employee identification, license number, digital signature, and/or photo identification.

"View User Group"

A visual display showing the users and parameters associated with the specified user group.

Casino Manager

Casino Manager performs casino wide business functions. Casino Manager includes functions for requesting credits, fills, and markers. Table inventory and table history methods are included along with a scheduling module used in the management of dealers. Casino Manager allows functionality to be run from either a standalone personal computer or from a wireless handheld device or PDA (Personal Digital Assistant).

FIG. **15** is an illustration of an example of graphical user interface for Casino Manager in which a table and an amount of chips may be designated, along with other functions applied to such a table and amount of chips. Note that a similar interface may be used in other functions to enter chip denominations and/or chip amounts.

FIG. **16** is a flowchart of a process for initiating Casino Manager functions.

"Table Inventory"

Allows users to accurately and electronically track table inventories at startup and closure of each table session. The system records all inventory values and updates the table roadmap accordingly.

"Roadmap"

The roadmap keeps a constant accounting cycle of a table's financial situation. All table transactions are recorded and entered into the roadmap by the system with no user intervention.

"Credit"

The credit feature automates the credit request made by pit and floor person. A fill request is recorded by the system and transmitted electronically to the casino back end system. A system printed receipt allows employee signatures and bar-code verification for tracking.

"Fill"

The fill feature automates the fill request made by pit and floor person. A fill request is recorded by the system and transmitted electronically to the casino back end system. A system printed receipt allows employee signatures and bar-code verification for tracking.

"Marker"

The marker method allows pit and floor personnel to request player markers for gaming purposes. The system generates the request to the casino cage and handles accountability and tracking of the requests, along with sequential printed receipts for employee signatures.

"Dealer Coordinator"

Dealer feature allows dealers and authorized personnel to perform dealer preferences and dealer scheduling. The feature allows dealers to register themselves into the system upon the beginning of a work shift. The system using random generation schedules dealers for certain games and breaks based upon preloaded dealer preferences. Cross referencing available Dealer pools to cover lost shifts and table dealer necessities.

FIG. **82** is an illustration showing the Dealer Coordinator actors and functions.

FIG. **83** is a diagram of the process for Dealer Rotation.

FIG. **84** is an illustration of a graphical user interface which shows the View Rotation display this user interface shows information regarding various shifts, and responsibilities of personnel in the shifts.

FIG. **87** is an illustration of a graphical user interface which shows the Dealer Coordinator Create Rotation screen.

FIG. **88** is an illustration of a graphical user interface which shows the Dealer Coordinator Re-Assign screen.

"Request Player Card"

A method that allows a user to request a player identification card be processed for a particular player. The system generates a request and is sent to the establishments computer system responsible for handling player identification cards. Typical requests stem from lost or damaged player cards.

"Security Alert Request"

A feature which allows a user of the system to request security assistance to a gaming table or area. The system generates an alert notification to the establishments security division. To combat fraud within the establishment the user has the capability to send a real-time request for assistance. The system calculates the exact location of the alert origin and notifies security personnel.

Rating Manager:

Rating Manager tracks the characteristics of wagers by players. Users of the system have the ability to record the wagers of players, calculate average wagers of players, and track duration of play by a player. Rating Manager cooperates with Player Manager in order to calculate and assign a player's compensation points. Compensation points are typically calculated based on the amount the player wagers, but may also be calculated in other many ways, including based on time, player characteristics, and/or fixed amounts.

FIG. **17** is an illustration of an example of graphical user interface for Rating Manager module which allows a user (E.G., Pit Boss, Floor Manager) to enter a wager amount made by a player. In particular, the graphical user interface allows a player to be selected by selecting a table and seat at which the player is seated. Note that a similar interface may be used in other functions to indicate (by a seat at a table) a player. The graphical user interface also allows a wager of this player to be entered and thereby recorded by the system. Note that a similar interface may be used in other functions to enter wager amounts.

The system also may display, via this user interface, the duration of play by this player and the average bet of this player, which may be computed from data previously entered, such as prior wagers and when the player checked-in to begin play for this game.

FIG. **85** is an illustration of a graphical user interface which shows Rating Manager displays on PDAs (e.g., a PDA operated by a Pit Boss or Floor Manager). The left display shows a graphical user interface which allows a table and seat to be selected by the user of the graphical user interface. In the right display shows a graphical user interface which allows a wager for the player at this seat to be entered. This display also provides the user with information regarding this player, such as the table and seat of the player, the game played by this player, the player identifier, the duration of play of this player, and the average bet of this player. Such data can be calculated from data previously entered.

Rating Manager functionality is implemented by the software described in the following source code files, filed herewith and incorporated in this application by reference.

RatingChipPanel.java

RatingC urrencyJB utton. j ava RatingGamePanel .java

RatingJPanel.java

RatingManagerConsole.java RatingPanel.java

RatingPlayerinfoJPanel.java RatingPlayerPanel.java

RatingSeatButton.java

Rating SeatsJPaneljava

RatingSummaryPanel. j ava RatingTableButton.java RatingTablesJPanel.java

"Current Wager"

Records a wager amount of a player at a table game. This function is typically activated (e.g., by a Pit Boss or Floor Person via a PDA) during the game immediately after the player makes a wager. This function is also typically activated to record several wager amounts of the player.

"Average Wager"

Calculate the average wager of a player by averaging the accumulated wagers previously recorded during this player's active session (e.g., this game, this type of game, this tournament, this day at the casino).

"Away Status Button"

Indicate and record when a player is/is not absent from an active game session (e.g., the player has momentarily left the table, the player ha paused play for some reason). A toggle button may be used to easily toggle a player's "away status", and thereby record whether the player is actively playing at any time. As described in this application, the system may use play duration and/or "player away" duration to calculate compensation points.

"Chip Count"

Record the amount of chips that a player brings to the table or leaves the table with. As described in this application, by tracking the chip count, the system can ascertain, in real-time, the chip count for a table.

"Player Session Duration"

A feature that allows the system and users to track the play duration of a player at gaming tables.

"Player Seat Tracking"

A method that tracks the seat assignments and changes made by a player during their active session at a gaming table.

"Chips In", "Chips Out"

Record the amount of chips that a player brings to a gaming table/the amount of chips that are relinquished by a table to a player.

Specifically, the system records player and table transactions for a game. Upon the opening or closing of a game, the Pit Boss and Dealer can perform a Table Inventory. This inventory can be entered into the system, allowing the gaming establishment to record the table inventory is upon open and close.

Also, when players enter a game, they can receive chips from the table in exchange for cash. The Pit Boss (or another user) can enters this "buy-in" amount into the system (e.g., via an interface that allows a player to be selected and a chip amount to be entered.

This data entry, which indicates a number of chips the player starts/ends a game with, is then saved and processed by the system to update player and table inventory data in the database. By providing the ability to register the amount of chips that come in and out of a table, the system can accurately determine the table's win/loss amount.

"Total In"

Records the amount of markers and cash that a player uses at a specific gaming table.

"Total Out"

Record the amount of chips that a player takes from the gaming table during an active session.

"Wager Notification"

Allow users to notify certain personnel of possibly fraudulent waging practices. For example, since the recorded player bet may be tracked, a significant deviation from the player's recorded wager amounts (e.g. over a time period such as one day, over all recorded bets of the player) may be noted and communicated to the proper entities. Similarly, if not enough samples of a player's wager amounts have been recorded, this may indicate a problem with the person responsible for recording the bets (e.g. possible collusion with that player, because that person has not recorded the player's lower wager amounts).

In ascertaining a deviation amount by which at least one of the wager amounts deviates from other wager amounts, many known methods may be used, such as the absolute value of the difference between the one wager amount and the average of the remaining wager amounts, or the percentage difference between the one wager amount and the average of the remaining wager amounts. Various types of thresholds may be established, as desired, to indicate when a deviation is to be considered significant enough to warrant notification.

Such notifications may include a message sent to predefined personnel (e.g., Floor Manager, Pitt Boss) and/or a message which is stored or record (for future reading by others, for future auditing).

"Calculate Rating"

The system can ascertain the elapsed time between when the player starts playing and when the player ends playing (e.g., by subtracting the stop time from the start time, minus any duration(s) of "player away"). Based on the elapsed time the system can calculate a player rating in any of a number of ways the casino desires. A player's rating may possibly but not necessarily include an amount of additional compensation points earned by the player for his play.

An example of a rating, specifically a poker rating, performed by Rating Manager is provided below:

Ratings level (which may indicate compensation points or other benefits to the player) in poker games may be based on wager amounts of the game, or the type of game at the table. For example, the player may be awarded compensation points (valued at certain dollar amounts) based on the duration of play and the table "stakes" or wagers of the player, such as:

Level 1—Stakes under $20 earn $1.00/per hour

Level 2—Stakes over $20 and under $60 earn $1.50/per hour Level 3—Stakes over $60 earn $2.00/per hour

Such rating levels are of course stored in the database, and can be changed by administrators to implement various compensation schemes.

A player may be awarded compensation points based on the following information recorded by the system:

Player Name	Play Start Time	Play End Time	Level
Player A	10:00AM	12:00PM	2

Thus, the system calculates the compensation points (in dollars) for this player by the following equation:

Rating per session=2(hours of play)×1.50(hourly rating amount for a level 2 player)=$3.00

Note that the system itself may calculate an amount of compensation points for the player based on the elapsed time. Alternatively or additionally, the system may simply transmit the elapsed time to a compensation system (in an embodiment where the casino has an existing compensation system which cooperates with the present system).

Player Manager:

Player Manager permits a player to be registered for a specific game (e.g., at a table). By registering the player, the system can accurately calculate seating and game capacity as well as track player activities. Using a security mechanism, the system tracks a player's registration across the entire gaming establishment. The player registration is recorded via a player identification card (e.g., encoded with a magnetic strip storing a player identifier) that is swiped thru a card reader (e.g., operable to transmit a signal, from cards that are read, to a desktop computer or PDA). The player may be identified from such a signal by translating the signal to a corresponding player identifier read from the card, and looking up that identifier in a database of player information.

Players may check in themselves (e.g. by swiping their own player tracking card) or may be checked in by another (e.g. by a casino employee that swipes the player's card). Players that check themselves out may be prompted to enter other data (e.g. via a nearby keyboard). For example, players may be prompted to enter their email addresses so that they may receive an email receipt. This would facilitate the collection of email addresses of such players.

FIG. **18** is an illustration of an example of graphical user interface for Player Manager module. This interface allows a player to be identified (by swiping a player tracking card). This interface also allows the identified player to be checked into or out of a game and the compensation points of the player to be verified. In addition, the interface may display player information, such as the player identifier, when the player was checked out of a game, the game the player was checked out of, and other game related information.

FIG. **86** is an illustration of a graphical user interface, showing the Player Manager Expert View display. This inter-

face allows a player to be checked into or checked out of a particulars seat at a particular table. This interface also displays information about the table and seats at that table, such as whether the seats are available for additional players or not.

Player Manager functionality is implemented by the software described in the following source code files, filed herewith and incorporated in this application by reference.

PlayerBasicSearch. java
PlayerCard java
PlayerC ashPanel .java
PlayerChipPanel. java
PlayerGameButton. java
PlayerGamePanc 1. java
PlayerHistoryView. java
PlayerManagerConsole. java
PlayerPanel. java
PlayerSeatButton.java
PlayerSummaryPanel. java
PlayerTableButton.java
PlayerVerificationTicketLayout.java

"Check In Player"

Register a player at a specific gaming table and seat. The system records player information and begins to record play duration and play characteristics that are used by the system to determine, e.g., compensation and player profiles. Thus, activating this function (e.g., by receiving a swipe of the player's player tracking card and/or a button press by a dealer or other personnel to indicate a seat at the table) allows the system to ascertain when a player starts playing a game at a table.

"Check Out Player"

Record the end of a player's active session and remove the player from the game at this table. The system calculates the player's session giving that player the correct amount of compensation. The system then transmits the player data to the establishments main rating system.

Thus, activating this function (e.g., by receiving a swipe of the player's player tracking card and/or a button press by a dealer or other personnel to indicate a seat at the table) allows the system to ascertain when a player stops playing a game at a table.

FIGS. **19-21** describe a process for a Player Check Out function.

"Verify Player Points"

Display the amount of compensation points that a player has accrued. The system queries the database and/or the establishments' main rating system database for the player's current point status. This function may be activated by the player (e.g., at a terminal with a card reader) and/or by casino personnel (e.g., a Dealer).

The data may also be sent instead of or in addition to being displayed. The player may choose to have their session or historical recordings of compensation points sent to them either via e-mail or traditional postal mail. To facilitate such sending, a player's personal information may be requested by the system.

"Player Assignment"

Binding a player to a specific gaming table and seat location for tracking, accounting, and profile purposes.

"Player Card Swipe"

Read, e.g., a magnetic stripe or barcode from a player identification card, and recorded the identifier for player tracking.

"Active Play Verification"

A security feature that ensures the establishment that a player may not be registered for multiple games at one time. The system can ascertain whether the player has attempted to register for another game (e.g., at another table).

To reduced fraudulent practices of undue compensation points awarded to the player, the player may only be registered at an active gaming table where there are seat locations available for play, and the player may only be registered for one game at a time. If the system detects that the player is attempting to register at another game, the system will automatically close out the previous game the player had checked into before starting a new session at the other game.

"Player Statistics Display"

Display player profiles and historical characteristics.

"Forbidden Player Notification"

A security method that restricts players who have a "banned" status from registering and playing at a gaming table by way of a system notification directed to the pit personnel, administrators, and security division.

"Print Player Check-In & Check-Out Tickets"

Print, on a ticket, information about the game. Establishments may desire to have a hard copy of their players' ratings. The printing of player tickets is controlled by the program's main processing engine. The printed tickets can include establishments customized data show the session playing time and compensation rating for each player. FIG. **22** shows examples of such tickets

Game Manager:

Game Manager allows certain personnel to open, close, modify, and view games. Game Manager interacts with the database and clients to ensure real-time updates and monitoring of games. Game Manager interacts with other modules such as List Manager without requiring user intervention. Game Manager of course supports both stationary and mobile electronic input devices.

FIG. **23** is an illustration of an example of graphical user interface for Game Manager. In particular, this interface allows various poker tables to be designated as active or inactive.

FIG. **24** is a flowchart illustrating of an overview of an embodiment for Game Manager. In particular, the flowchart describes a process by which an actor may start Game Manager and invoke various Game Manager functions.

"Open Game"

Open a new game on a specified table and give the table an "active" status. FIG. **25** describes how various actors may interact with the Open Game (or "Open Table") function. FIGS. **26-28** describe in detail the "Open Game" function.

"Modify Game"

Modify the current game on the specified table.

"Close Game"

Close the current game on the specified table and give the table an "inactive" status. FIG. **29** describes how various actors may interact with the Close Game (or "Close Table") function. FIGS. **30-32** describe in detail the "Close Game" function.

"Must Move Game"

Protect a main game by backfilling players from temporary tables to the main table as seat becomes available. The system automatically handles all instructions to floor and pit personnel about which players to move and to which seats the players be moved to. The system handles player moves by establishing table relationships and recording the order in which players have seniority to play at the main table.

"Active Game Display"

A display showing the active tables and associated games within a pit or specialized gaming room.

"Inactive Game Display"

A display showing the inactive tables within a pit or specialized gaming room giving personnel real-time analysis of table capacity.

"Active Seating Display"

A method that displays real-time seating capacity.

"Inactive Seating Display"

A method that displays real-time seating capacity.

"Seating Capacity"

Displays real-time seating capacity. The system calculates the number of active tables and active seats and compares the values to the predetermined values of maximum table and seat capacity.

"Active Dealer Display"

A feature that displays the current active dealer servicing the game at a particular table.

"Automapper"

Uses a geographical layout of the casino and instruct players or patrons on the "best route" to the gaming table of their choice. This function affects the workings of List Manager by notifying a player of the geographic location of the table where an available seat resides.

"Player-Game Tracking"

Coordinates with other modules to calculate the play rate of a dealer. For example, since a dealer checks into and out the system during his shift at various tables, he may be readily identified when he begins and ends play at a given gaming table. Thus, that dealer's rate of play (e.g. games played per some unit of time) may be readily determined. This in turn may be used to calculate an expected "take rate" for the casino, since the expected take rate per game may be determined for specific games.

List Manager.

List Manager maintains a list or queue of various information. List Manager includes a suite of tools for automating the queuing process. These tools include: Add, Modify, Delete, Phone-In, Activate, Open Seat, Lockup, Rollover, Insert, Public Seat, and Multiple. Using these combined tools allows certain personnel to automate the manual processes. List Manager also uses voice recognition, text-to-speech algorithms, and intelligent queue notification to alert patrons of various availabilities. Sun's Java™ telephony API module may be used to implement text-to-speech appropriately.

List Manager interacts with the database and all clients to ensure real-time updates and monitoring. List Manager of course supports both stationary and mobile electronic input devices.

FIG. **33** is a graphical user interface that displays, for various games at various tables, the players that are registered for those games. Whether the player is registered or waiting to be registered for the game may be indicated by, for example, a different shading or color of the initials of the player indicated.

FIG. **34** is a graphical user interface showing a virtual keyboard, which allows data such as players' initials to be entered in conjunction with a particular game at a particular table.

FIG. **35** is a flowchart illustrating an overview of an embodiment for List Manager. In particular, the flowchart illustrates that an actor may start List Manager and invoke various functions of List Manager.

"Add"

Adds the player information to the list under the specified game of choice. The "Add" function records player information, date and time, and type of list addition. The system correctly places the addition on the list in the next available position with a unique system and queue identifier. Additions are color-coded on the visual representation of the queue/list, permitting various information to be easily understood by users viewing the displayed data.

FIG. **36** shows a use case diagram of various actors invoking the "Add" (also "Add Player") function.

FIGS. **37-39** describe in detail the process for adding a player.

"Modify"

Modify allows the modification of player information in the queue or on the list. The player's position in the queue remains the same.

"Delete"

Delete removes a certain player's registration from the list or queue. Upon deletion the system recalculates the queue/list and updates the remaining entries by resorting them in the appropriate order. FIGS. **40-42** describe in detail the process for deleting a player.

"Insert"

Insert performs a player insertion into the queue or list at a specified location determined by the user. After a player insertion the system resorts the queue/list and updates accordingly. When a player is inserted the system provides date and time stamps as well as a unique system ID. Inserts are color-coded on the visual representation of the queue/list. FIGS. **43-46**A describe in detail the process for inserting a player.

"Phone-In"

Phone-In supports the addition of a player to the queue/list via telephone or e-mail requests (e.g., by a player not on site). A Phone-in is added with date and time stamps, unique system ID, and color-coded visual entry.

"Activate"

Activate feature is required to activate a Phone-in entry. Once a phone-in entry is present and available for action, the activate feature updates the system on player availability. Once a phone-in is activated the system removes the color-coded phone-in visual representation.

"Search"

Enables operators to actively search both current and past players and lists to provide comprehensive reporting and information regarding the transaction history. Search can be performed with initials, name, player card, game, or stakes.

FIGS. **71-72** describe in detail the process for searching for a user's initials.

FIG. **73** illustrates a user interface which displays information about various players and events.

"Open Seat"

Allows users to notify the system and players that an available seat has become open. Once the open seat feature has been initiated the system locates the next name in the queue/list. The system then reads the player's information and using text-to-speech generation and calls out the player via a public announcement system (e.g., speakers in communication with and/or under control of the system) notifying them of the open seat for the particular game. The system can also notify players via e-mail, and pager services.

"Lockup"

The system "lockups" or secures the available seat for a particular player called during the open seat notification. Once a player has been "locked up" their information is removed from the queue/list. The system then updates the queue/list by resorting the players.

FIGS. **46**B-**46**G describe in detail the process of Lockup.

"Rollover"

Moves a player in the queue/list to the bottom of the queue/list. This is done so that the player is not removed from the

queue/list but "rolled" over in because of unavailability of the player. The system records the transaction and resorts the queue/list accordingly.

"Multiple"

Allow a user of the system to perform multiple functions during one action. An example of the multiple feature would be to add a player to more than one game at a time. Using the multiple feature a user can add players to multiple games through one action.

FIG. **47** is a Use Case Diagram describing actors that may initiate the "Multiple" (Also called "Multiple Add") function.

FIGS. **48-50** describe in detail the process of "Multiple".

"Reseat Player"

Determine the correct location in the queue/list to place a player during a reseating procedure. The player is placed on a reseating list of the game of choice and once activated the system manages how and where the player is inserted into the main queue/list.

"Integrated Voice Response"

Use customized text-to-voice process to create sentences and utilizing a speaker or public announcement setup calls out the created sentence in a voice format. The method also handles the ability for players to "call-in" to the system via telephone or e-mail services and gain real-time queue/list status, register for games, verify compensation points, and learn about establishment promotions. The integrated voice response feature can recognized proper names from an internal dictionary (name table) and call the specific player by the own name.

Proper Name recognition may be performed through software. For example, prior to calling a name or set of initials, the system parses the string (i.e. "p-e-t-e-r") representing that name or set of initials. The system then determines whether or not the string matches a proper name in the name table. If there is a match, a pre-recorded speech output file corresponding to the proper name is played via the audio output device. If the string does not match a proper name from the name table, each variable (i.e. "p-e-t") is matched to its corresponding pre-recorded sound (e.g., a sound file for each letter). Those sounds are played via the audio output device.

"Promotional Marquee"

Enables an establishment to utilize the system to promote special events on a visual display. Many types of appropriate displays include, for example, a large plasma screen capable of a resolution of 1024×768.

FIG. **51** is a Use Case Diagram describing actors that may initiate the "Promotional Marquee" (Also called "Marquee") function.

FIGS. **52-54** describe in detail the process of "Promotional Marquee".

The program queries a database table where the marquee text, pictures, or voice information is stored. The program then displays this stored information on the designated screens. The marquee runs in real-time, so that upon changing the values or information in the database table the displayed content will be updated without having to re-start the program. The scheduled query intervals, scrolling speed, and location of the marquee can be in customized since these parameters are defined in the database.

"Average Wait Time"

Calculates historical and real-time data to predict average wait time within a queue/list.

FIGS. **77-78** describe in detail the process for "Average Wait Time".

FIG. **79** is a user interface that displays average wait time for various games.

"Player Self Registration"

Allows players to utilize the system and register themselves for particular games of choice or tournaments via their player identification card. The system handles the player registration and records the transaction as self-registration for tracking and reporting purposes.

"Profanity Checker"

Actively compares displayed information against a database dictionary of profanities. If the system detects a possible displayed profanity the system can notify an administrator and automatically disallow the profanity from being displayed.

FIG. **55** is a Use Case Diagram describing actors that may initiate the "Profanity Checker" function.

FIGS. **56-58** describe in detail the process of "Profanity Checker".

"Duplicate Checker"

A feature that actively checks for duplicate names or the list or in the queue. Duplicate Checker verifies that no duplicate entries may reside so that confusion in regards to list registration is avoided. This is a process of the program's processing engine.

FIG. **59** is a Use Case Diagram describing actors that may initiate the "Duplicate Checker" (also called "Duplicate Entry") function.

FIGS. **60-62** describe in detail the process of "Duplicate Checker".

"Player Receipt"

Generate a receipt that the player can receive for validation of a gaming session, registration, tournament placement, or compensation redemption. The receipt can be generated by the system with a unique identifier and can contain encrypted barcode or magnetic stripe features.

"Casino Valet List Manager"

Handle the queue/list in the valet area of the establishment. Players or patrons utilize the valet list in the same manner as the game list. The system records the player and vehicle identification and processes the transaction.

"Public Seat"

When an open seat is initiated the system will check to see if there are active entries in the queue/list. If there are not, the system will notify the "Public Seat" function. This function allows the actors of the system to be informed of available seats for the public or walk-in players by a visual color-code of the information.

FIG. **63** is a Use Case Diagram describing actors that may initiate the "Public Seat" (also called "Public Seating") function.

FIGS. **64-66** describe in detail the process of "Public Seat".

"Reserve Player"

When a player requests to be placed at the top of a list or queue, that player can be inserted via the "Reserve Player" function. When an open seat becomes available that player will be next in line to acquire the seat. The reserved player may be represented by a visual color-code. The "Reserve Player" function may be used by management to place a player atop the list or queue for special purposes.

FIGS. **74-75** describe in detail the "Reserve Player" function.

FIG. **76** is a graphical user interface showing a virtual keyboard, which allows data such as players' initials to be entered in conjunction with a particular game at a particular table.

"Jackpot Display"

Allow an establishment to display a running total of a cash payment offered. The system records the parameters of the Jackpot requirements and maintains the Jackpot total based upon the selected criteria.

"Game Qualification"

Decide whether or not to suggest the opening of a new game based upon a set of predefined criteria and algorithms.

"Game Qualification" assures that there are enough players or interest in a game prior to that game beginning. Qualifying the game prior to it's start ensures that no resources, time, or administration services continue without some assurance that the game will be played. The criteria for qualifying games may be, for example, number of players, type of game, day of the week, time of day, available dealers and/or available staff. The criteria are business rules that reside in the database and can be changed by an administrator as desired.

An example of game qualification is:

Criteria:

1. A game must have at least three players waiting to play before the table opens for play.

2. Available dealer must be present and currently unassigned.

3. All other games of similar type must be full.

Algorithm:

Check Rule: 1 (Pass) Check Rule: 2 (Pass) Check Rule: 3 (Pass)

Result: Game is opened.

"Pause List"

Allows the users of the system to pause the list or queue at random. Allowing the pausing of the list or queue gives the users the benefit of manipulating, viewing, and analyzing the current list or queue status. Upon a list pause, the system does not stop processing other requests from other users or clients. The system will continue to process requests and update the paused user or client once the list or queue is resumed.

"Undo"

System users may choose to undo already committed actions. The undo feature allows users to undo previously entered actions. The application server and database log every transaction to a history table allowing the rollback of transactions to a desired point.

"Redo"

The opposite of undo, if a system users rolls back a transaction with an undo command and decides to redo the action, the system user may redo the last revoked command.

Finally, FIG. **89** describes an example of a player interacting with the system to be added to a desired game.

The invention has been described with respect to a number of embodiments. However it will be apparent that many modifications and variations may be made within the scope of the invention.

We claim:

1. A system for real time operational support of casino dealer coordinator functions comprising:

a suite of computerized dealer coordinator application software programs linked together to provide real time operational support for casino dealer coordinator gaming functions, said suite including programs configured to facilitate electronic scheduling and dealer rotation functions in support of casino dealer coordinator functions;

a central database for storing said suite of dealer coordinator application software programs and other data;

an application software program server for facilitating execution of said dealer coordinator application software programs;

at least one client computing or display device on which said dealer coordinator application software programs or data are configured to be executed, linked or displayed; and

at least one user interface associated with the at least one client computing or display device, said user interface being configured to display and/or enable initiation, execution, and interaction with the application software programs and data stored on the central database;

wherein said application software program server enables communication and transmission of data between the central database and the at least one client computing or display device; wherein the central database, application software program server, at least one client computing or display device and application software programs are configured to facilitate integrated real time operational support for casino dealer coordinator functions and wherein information generated by or associated with a particular application software program is configured to be used during execution of another related gaming application software program.

2. The system of claim **1** wherein at least one of the application software programs of the suite of programs is configured to facilitate public display of dealer information.

3. The system of claim **1** wherein at least one of the application software programs of the suite of programs is configured to facilitate the creation, modification or display of dealer schedules.

4. The system of claim **1** further configured to facilitate creation, modification, generation or display of dealer schedules and breaks based on dealer preferences or other criteria.

5. The system of claim **1** wherein the at least one client computing or display device is configured to communicate wirelessly with the application program server.

6. The system of claim **1** wherein the system components are configured to communicate with each other and with other applications, data and systems via the internet or other computer network.

7. The system of claim **1** further configured to facilitate monitoring of the system via the internet or other network connection.

8. The system of claim **1** wherein the system is configured to link to and interact with special purpose casino devices.

9. The system of claim **8** wherein said devices include at the table shuffling machines.

10. The system of claim **1** wherein at least one of the application programs is configured to facilitate generation of a report from information stored on the central database.

11. The system of claim **1** wherein the user interface is configured to receive and operate in response to verbal commands or inquiries and to provide automated verbal responses to such verbal commands or inquiries.

12. The system of claim **1** further configured to facilitate synchronization of the central database with another database.

13. The system of claim **1** further configured to communicate with another casino management system such as a legacy player tracking system or other system or database.

14. A system for real time operational support of casino dealer coordinator functions comprising:

a suite of computerized dealer coordinator application software programs linked together to provide real time operational support for casino dealer coordinator gaming functions, said suite including programs configured to facilitate electronic scheduling and dealer rotation functions in support of casino dealer coordinator functions;

a central database for storing said suite of dealer coordinator application software programs and other data;

an application software program server for facilitating execution of said dealer coordinator application software programs;

at least one client computing or display device on which said dealer coordinator application software programs or data are configured to be executed, or linked or displayed; and

at least one user interface associated with the at least one client computing or display device, said user interface being configured to display and/or enable initiation, execution, and interaction with the application software programs and data stored on the central database;

wherein said application software program server enables communication and transmission of data between the central database and the at least one client computing or display device; wherein the central database, application software program server, at least one client computing or display device and application software programs are configured to facilitate integrated real time operational support for casino dealer coordinator functions; wherein information generated by or associated with a particular application software program is configured to be used during execution of another related application software program and wherein said system is configured to facilitate automatic generation of dealer schedules and rotations based on predetermined criteria.

15. The system of claim 14 wherein at least one of the application software programs of the suite of programs is configured to facilitate public display of dealer information.

16. The system of claim 14 wherein at least one of the application software programs of the suite of programs is configured to facilitate the creation, modification or display of dealer schedules.

17. The system of claim 14 further configured to facilitate creation, modification, generation or display of dealer schedules and breaks based on dealer preferences or other criteria.

18. The system of claim 14 wherein the at least one client computing or display device is configured to communicate wirelessly with the application program server.

19. The system of claim 14 wherein the system components are configured to communicate with each other and with other applications, data and systems via the internet or other computer network.

20. The system of claim 14 further configured to facilitate monitoring of the system via the internet or other network connection.

21. The system of claim 14 wherein the system is configured to link to and interact with special purpose casino devices.

22. The system of claim 21 wherein said devices include at the table shuffling machines.

23. The system of claim 14 wherein at least one of the application programs is configured to facilitate generation of a report from information stored on the central database.

24. The system of claim 14 wherein the user interface is configured to receive and operate in response to verbal commands or inquiries and to provide automated verbal responses to such verbal commands or inquiries.

25. The system of claim 14 further configured to facilitate synchronization of the central database with another database.

26. The system of claim 14 further configured to communicate with another casino management system such as a legacy player tracking system or other system or database.

* * * * *

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

NOTICE OF ASSIGNMENT TO UNITED STATES MAGISTRATE JUDGE FOR DISCOVERY

This case has been assigned to District Judge George H. Wu and the assigned discovery Magistrate Judge is _____.

The case number on all documents filed with the Court should read as follows:

CV13- 3699 GW (Ex)

Pursuant to General Order 05-07 of the United States District Court for the Central District of California, the Magistrate Judge has been designated to hear discovery related motions.

All discovery related motions should be noticed on the calendar of the Magistrate Judge

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NOTICE TO COUNSEL

A copy of this notice must be served with the summons and complaint on all defendants (if a removal action is filed, a copy of this notice must be served on all plaintiffs).

Subsequent documents must be filed at the following location:

[_] **Western Division**
312 N. Spring St., Rm. G-8
Los Angeles, CA 90012

[_] **Southern Division**
411 West Fourth St., Rm. 1-053
Santa Ana, CA 92701-4516

[_] **Eastern Division**
3470 Twelfth St., Rm. 134
Riverside, CA 92501

Failure to file at the proper location will result in your documents being returned to you.

LOCKE LORD LLP
Brandon J. Witkow [SBN 210443]
bwitkow@lockelord.com
300 South Grand Avenue, suite 2600
Los Angeles, California 90071
Tel: (213) 485-1500
Fax: (213) 485-1200

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

AMERANTH, INC,.a Delaware corporation PLAINTIFF(S) v. HAWAIIAN GARDENS CASINO, a California corporation, and DOES 1-10, inclusive, DEFENDANT(S).	CASE NUMBER **CV13-03699 GW (Ex)** **SUMMONS**

TO: DEFENDANT(S):

A lawsuit has been filed against you.

Within 21 days after service of this summons on you (not counting the day you received it), you must serve on the plaintiff an answer to the attached ☒ complaint ☐ _____ amended complaint ☐ counterclaim ☐ cross-claim or a motion under Rule 12 of the Federal Rules of Civil Procedure. The answer or motion must be served on the plaintiff's attorney, Brandon J. Witkow, whose address is Locke Lord LLP 300 S. Grand Avenue, 26th Floor, Los Angeles, California 90071. If you fail to do so, judgment by default will be entered against you for the relief demanded in the complaint. You also must file your answer or motion with the court.

Clerk, U.S. District Court

Dated: MAY 23 2013

By: _____
Deputy Clerk

(Seal of the Court)

[Use 60 days if the defendant is the United States or a United States agency, or is an officer or employee of the United States. Allowed 60 days by Rule 12(a)(3)].

UNITED STATES DISTRICT COURT, CENTRAL DISTRICT OF CALIFORNIA

CIVIL COVER SHEET

I. (a) PLAINTIFFS (Check box if you are representing yourself ☐)
AMERANTH, INC., a Delaware corporation,

DEFENDANTS (Check box if you are representing yourself ☐)
HAWAIIAN GARDENS CASINO, a California corporation and DOES 1-10, inclusive,

(b) Attorneys (Firm Name, Address and Telephone Number. If you are representing yourself, provide same.)
Brandon J. Witkow [SBN 210443]
LOCKE LORD LLP
300 South Grand Avenue, 26th Floor
Los Angeles, California 90071
(213) 485-1550

(b) Attorneys (Firm Name, Address and Telephone Number. If you are representing yourself, provide same.)

II. BASIS OF JURISDICTION (Place an X in one box only.)

☐ 1. U.S. Government Plaintiff
☒ 3. Federal Question (U.S. Government Not a Party)
☐ 2. U.S. Government Defendant
☐ 4. Diversity (Indicate Citizenship of Parties in Item III)

III. CITIZENSHIP OF PRINCIPAL PARTIES-For Diversity Cases Only
(Place an X in one box for plaintiff and one for defendant)

	PTF	DEF		PTF	DEF
Citizen of This State	☐ 1	☐ 1	Incorporated or Principal Place of Business in this State	☐ 4	☐ 4
Citizen of Another State	☐ 2	☐ 2	Incorporated and Principal Place of Business in Another State	☐ 5	☐ 5
Citizen or Subject of a Foreign Country	☐ 3	☐ 3	Foreign Nation	☐ 6	☐ 6

IV. ORIGIN (Place an X in one box only.)

☒ 1. Original Proceeding ☐ 2. Removed from State Court ☐ 3. Remanded from Appellate Court ☐ 4. Reinstated or Reopened ☐ 5. Transferred from Another District (Specify) ☐ 6. Multi- District Litigation

V. REQUESTED IN COMPLAINT: JURY DEMAND: ☒ Yes ☐ No (Check "Yes" only if demanded in complaint.)

CLASS ACTION under F.R.Cv.P. 23: ☐ Yes ☐ No ☒ MONEY DEMANDED IN COMPLAINT: $ _____

VI. CAUSE OF ACTION (Cite the U.S. Civil Statute under which you are filing and write a brief statement of cause. Do not cite jurisdictional statutes unless diversity.)
35 U.S.C. Section 271 - Patent Infringement

VII. NATURE OF SUIT (Place an X in one box only).

OTHER STATUTES
☐ 375 False Claims Act
☐ 400 State Reapportionment
☐ 410 Antitrust
☐ 430 Banks and Banking
☐ 450 Commerce/ICC Rates/Etc.
☐ 460 Deportation
☐ 470 Racketeer Influenced & Corrupt Org.
☐ 480 Consumer Credit
☐ 490 Cable/Sat TV
☐ 850 Securities/Commodities/Exchange
☐ 890 Other Statutory Actions
☐ 891 Agricultural Acts
☐ 893 Environmental Matters
☐ 895 Freedom of Info. Act
☐ 896 Arbitration
☐ 899 Admin. Procedures Act/Review of Appeal of Agency Decision
☐ 950 Constitutionality of State Statutes

CONTRACT
☐ 110 Insurance
☐ 120 Marine
☐ 130 Miller Act
☐ 140 Negotiable Instrument
☐ 150 Recovery of Overpayment & Enforcement of Judgment
☐ 151 Medicare Act
☐ 152 Recovery of Defaulted Student Loan (Excl. Vet.)
☐ 153 Recovery of Overpayment of Vet. Benefits
☐ 160 Stockholders' Suits
☐ 190 Other Contract
☐ 195 Contract Product Liability
☐ 196 Franchise

REAL PROPERTY
☐ 210 Land Condemnation
☐ 220 Foreclosure
☐ 230 Rent Lease & Ejectment

REAL PROPERTY CONT.
☐ 240 Torts to Land
☐ 245 Tort Product Liability
☐ 290 All Other Real Property

TORTS
PERSONAL INJURY
☐ 310 Airplane
☐ 315 Airplane Product Liability
☐ 320 Assault, Libel & Slander
☐ 330 Fed. Employers' Liability
☐ 340 Marine
☐ 345 Marine Product Liability
☐ 350 Motor Vehicle
☐ 355 Motor Vehicle Product Liability
☐ 360 Other Personal Injury
☐ 362 Personal Injury-Med Malpratice
☐ 365 Personal Injury-Product Liability
☐ 367 Health Care/ Pharmaceutical Personal Injury Product Liability
☐ 368 Asbestos Personal Injury Product Liability

IMMIGRATION
☐ 462 Naturalization Application
☐ 465 Other Immigration Actions

TORTS
PERSONAL PROPERTY
☐ 370 Other Fraud
☐ 371 Truth in Lending
☐ 380 Other Personal Property Damage
☐ 385 Property Damage Product Liability

BANKRUPTCY
☐ 422 Appeal 28 USC 158
☐ 423 Withdrawal 28 USC 157

CIVIL RIGHTS
☐ 440 Other Civil Rights
☐ 441 Voting
☐ 442 Employment
☐ 443 Housing/ Accomodations
☐ 445 American with Disabilities-Employment
☐ 446 American with Disabilities-Other
☐ 448 Education

PRISONER PETITIONS
Habeas Corpus:
☐ 463 Alien Detainee
☐ 510 Motions to Vacate Sentence
☐ 530 General
☐ 535 Death Penalty
Other:
☐ 540 Mandamus/Other
☐ 550 Civil Rights
☐ 555 Prison Condition
☐ 560 Civil Detainee Conditions of Confinement

FORFEITURE/PENALTY
☐ 625 Drug Related Seizure of Property 21 USC 881
☐ 690 Other

LABOR
☐ 710 Fair Labor Standards Act
☐ 720 Labor/Mgmt. Relations
☐ 740 Railway Labor Act
☐ 751 Family and Medical Leave Act
☐ 790 Other Labor Litigation
☐ 791 Employee Ret. Inc. Security Act

PROPERTY RIGHTS
☐ 820 Copyrights
☒ 830 Patent
☐ 840 Trademark

SOCIAL SECURITY
☐ 861 HIA (1395ff)
☐ 862 Black Lung (923)
☐ 863 DIWC/DIWW (405 (g))
☐ 864 SSID Title XVI
☐ 865 RSI (405 (g))

FEDERAL TAX SUITS
☐ 870 Taxes (U.S. Plaintiff or Defendant)
☐ 871 IRS-Third Party 26 USC 7609

FOR OFFICE USE ONLY: Case Number: CV13-03699 GW (Ex)

AFTER COMPLETING PAGE 1 OF FORM CV-71, COMPLETE THE INFORMATION REQUESTED ON PAGE 2.

VIII(a). **IDENTICAL CASES**: Has this action been previously filed in this court and dismissed, remanded or closed? ☒ NO ☐ YES

If yes, list case number(s): _____

VIII(b). **RELATED CASES**: Have any cases been previously filed in this court that are related to the present case? ☐ NO ☒ YES

If yes, list case number(s): SACV 11-0189 AG (RNBx) and SACV13-00710 AG (RNBx)

Civil cases are deemed related if a previously filed case and the present case:

(Check all boxes that apply)
- ☐ A. Arise from the same or closely related transactions, happenings, or events; or
- ☒ B. Call for determination of the same or substantially related or similar questions of law and fact; or
- ☒ C. For other reasons would entail substantial duplication of labor if heard by different judges; or
- ☐ D. Involve the same patent, trademark or copyright, and one of the factors identified above in a, b or c also is present.

IX. VENUE: (When completing the following information, use an additional sheet if necessary.)

(a) List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** named plaintiff resides.

☐ Check here if the government, its agencies or employees is a named plaintiff. If this box is checked, go to item (b).

County in this District:*	California County outside of this District; State, if other than California; or Foreign Country
	San Diego

(b) List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** named defendant resides.

☐ Check here if the government, its agencies or employees is a named defendant. If this box is checked, go to item (c).

County in this District:*	California County outside of this District; State, if other than California; or Foreign Country
Hawaiian Gardens Casino - L.A. County	

(c) List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** claim arose.
NOTE: In land condemnation cases, use the location of the tract of land involved.

County in this District:*	California County outside of this District; State, if other than California; or Foreign Country
Los Angeles	

***Los Angeles, Orange, San Bernardino, Riverside, Ventura, Santa Barbara, or San Luis Obispo Counties**
Note: In land condemnation cases, use the location of the tract of land involved

X. SIGNATURE OF ATTORNEY (OR SELF-REPRESENTED LITIGANT): _____ DATE: May 22, 2013

Brandon J. Witkow

Notice to Counsel/Parties: The CV-71 (JS-44) Civil Cover Sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law. This form, approved by the Judicial Conference of the United States in September 1974, is required pursuant to Local Rule 3-1 is not filed but is used by the Clerk of the Court for the purpose of statistics, venue and initiating the civil docket sheet. (For more detailed instructions, see separate instructions sheet).

Key to Statistical codes relating to Social Security Cases:

Nature of Suit Code	Abbreviation	Substantive Statement of Cause of Action
861	HIA	All claims for health insurance benefits (Medicare) under Title 18, Part A, of the Social Security Act, as amended. Also, include claims by hospitals, skilled nursing facilities, etc., for certification as providers of services under the program. (42 U.S.C. 1935FF(b))
862	BL	All claims for "Black Lung" benefits under Title 4, Part B, of the Federal Coal Mine Health and Safety Act of 1969. (30 U.S.C. 923)
863	DIWC	All claims filed by insured workers for disability insurance benefits under Title 2 of the Social Security Act, as amended; plus all claims filed for child's insurance benefits based on disability. (42 U.S.C. 405 (g))
863	DIWW	All claims filed for widows or widowers insurance benefits based on disability under Title 2 of the Social Security Act, as amended. (42 U.S.C. 405 (g))
864	SSID	All claims for supplemental security income payments based upon disability filed under Title 16 of the Social Security Act, as amended.
865	RSI	All claims for retirement (old age) and survivors benefits under Title 2 of the Social Security Act, as amended. (42 U.S.C. 405 (g))