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22 Attorneys for *Plaintiff*  
23 AMERANTH, INC.

24 UNITED STATES DISTRICT COURT  
25 CENTRAL DISTRICT OF CALIFORNIA

26 AMERANTH, INC., a Delaware  
27 corporation,

28 Plaintiff,

vs.

GENESIS GAMING SOLUTIONS, INC., a  
Texas corporation, IT CASINO  
SOLUTIONS LLC, a California limited  
liability company, EL DORADO  
ENTERPRISES, INC, dba HUSTLER

Case No. SACV13-426 CJC(RNBx)

COMPLAINT FOR PATENT  
INFRINGEMENT

[DEMAND FOR JURY TRIAL]

2013 MAR 13 AM 11:32  
CLERK U.S. DISTRICT COURT  
CENTRAL DISTRICT OF CALIF.  
SAN DIEGO, CALIF.

FILED

1 CASINO, a California corporation,  
2 CALIFORNIA COMMERCE CLUB, INC.,  
3 dba COMMERCE CASINO, a California  
4 corporation, Hawaiian Gardens Casino, a  
5 California corporation & DOES 1-10,  
6 inclusive,

Defendants.

7  
8 Plaintiff Ameranth, Inc., for its Complaint against Genesis Gaming Solutions,  
9 Inc., IT Casino Solutions LLC, El Dorado Enterprises, Inc., dba Hustler Casino,  
10 California Commerce Club, Inc., dba Commerce Casino, Hawaiian Gardens Casino,  
11 & DOES 1-10 avers as follows:

12 **PARTIES**

13 1. Plaintiff Ameranth, Inc. (“Plaintiff” or “Ameranth”) is a Delaware  
14 corporation having a principal place of business at 5820 Oberlin Drive, Suite 202, San  
15 Diego, California 92121. Ameranth manufactures and sells, inter alia, gaming  
16 information technology solutions under the trademarks 21st Century Casino™  
17 (“21CC”), Poker Room Manager (“PRM”) and others, including casino waitlisting,  
18 tournament, marquee, player tracking and dealer coordination products and solutions.

19 2. Defendant Genesis Gaming Solutions, Inc. (“Genesis”) is, on information  
20 and belief, a Texas corporation having a principal place of business at 25003 Pitkin  
21 Road, Spring, Texas 77386. On information and belief, Defendant Genesis makes,  
22 uses, sells and/or offers for sale gaming information technology products, software,  
23 components and/or systems within this Judicial District including products, software,  
24 components and/or systems including casino poker gaming monitoring/management,  
25 waitlisting, player tracking, player management, marquee/public display,  
26 compensation accrual and management and internet solutions.

27 3. Defendant IT Casino Solutions, LLC (“ITCS”) is, on information and  
28 belief, a California limited liability corporation having a principal place of business at

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1 7310 E. Paseo Tampico, Anaheim Hills, California 92808. On information and belief,  
2 Defendant ITCS makes, uses, sells and/or offers for sale gaming information  
3 technology products, software, components and/or systems within this Judicial  
4 District including products, software, components and/or systems including casino  
5 poker gaming monitoring/management, waitlisting, player tracking, player  
6 management, marquee/public display, compensation accrual and management and  
7 internet solutions.

8 4. Defendant El Dorado Enterprises, Inc., dba Hustler Casino (“Hustler  
9 Casino”) is, on information and belief, a California corporation having a principal  
10 place of business at 1000 W. Redondo Beach Blvd., Gardena, CA 90247. On  
11 information and belief, Defendant Hustler Casino makes or uses gaming information  
12 technology products, software, components and/or systems within this Judicial  
13 District including products, software, components and/or systems including casino  
14 poker gaming monitoring/management, waitlisting, player tracking, player  
15 management, marquee/public display, compensation accrual and management and  
16 internet solutions.

17 5. Defendant California Commerce Club, Inc., dba Commerce Casino  
18 (“Commerce”) is, on information and belief, a California corporation having a  
19 principal place of business at 6131 E. Telegraph Road, Commerce, California 90040.  
20 On information and belief, Defendant Commerce makes or uses gaming information  
21 technology products, software, components and/or systems within this Judicial  
22 District including products, software, components and/or systems including casino  
23 poker gaming monitoring/management, waitlisting, player tracking, player  
24 management, marquee/public display, compensation accrual and management and  
25 internet solutions. Commerce purports to be the world’s largest poker room.

26 6. Defendant Hawaiian Gardens Casino (“Hawaiian Gardens”) is, on  
27 information and belief, a California corporation having a principal place of business at  
28 21520 S. Pioneer Blvd. Ste. 305, Hawaiian Gardens, California 90716. On

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1 information and belief, Defendant Hawaiian Gardens makes or uses gaming  
2 information technology products, software, components and/or systems within this  
3 Judicial District including products, software, components and/or systems including  
4 casino poker gaming monitoring/management, waitlisting, player tracking, player  
5 management, marquee/public display, compensation accrual and management and  
6 internet solutions.

7 7. The true names and capacities of the Defendants named herein as DOES  
8 1 through 10, inclusive, are unknown to Plaintiff at this time. Therefore, Plaintiff sues  
9 said Defendants by such fictitious names. Plaintiff will amend this complaint to  
10 allege these Defendants' true names and capacities when they have been ascertained.

11 **JURISDICTION AND VENUE**

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

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

16 10. On information and belief, Defendant Genesis has engaged in (a) the  
17 offer for sale and sale of gaming technology services, products and/or components in  
18 the United States, including this Judicial District, including services, products,  
19 software, components and/or systems including casino poker gaming  
20 monitoring/management, waitlisting, player tracking, player management,  
21 marquee/public display, compensation accrual and management and internet solutions  
22 under the "BRAVO" trademark and/or tradename (b) the installation and maintenance  
23 of said services, products, software, components and/or systems in gaming and/or  
24 casino information technology systems in the United States, including this Judicial  
25 District and (c) the use of gaming information technology systems comprising said  
26 services, products, software, components and/or systems in the U.S., including this  
27 Judicial District.  
28

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1           11. This Court has personal jurisdiction over Defendant Genesis as Genesis  
2 has committed acts of patent infringement in this Judicial District including, *inter alia*,  
3 making, using, offering for sale, and/or selling infringing services, products, software,  
4 components and/or systems in this Judicial District.

5           12. On information and belief, Defendant Genesis has knowingly and  
6 actively infringed, contributed to infringement and/or has induced others to commit  
7 such acts of infringement in this Judicial District.

8           13. On information and belief, Defendant ITCS has engaged in (a) the offer  
9 for sale and sale of gaming technology services, products and/or components in the  
10 United States, including this Judicial District, including services, products, software,  
11 components and/or systems including casino poker gaming monitoring/management,  
12 waitlisting, marquee/public display, player tracking, player management,  
13 compensation accrual and management and internet solutions under the “IT Casino  
14 Solutions,” “ITC,” “ITCS” and/or “ISIS M3” trademarks and/or tradenames (b) the  
15 installation and maintenance of said services, products, software, components and/or  
16 systems in gaming and/or casino information technology systems in the United States,  
17 including this Judicial District and (c) the use of gaming information technology  
18 systems comprising said services, products, software, components and/or systems in  
19 the U.S., including this Judicial District.

20           14. This Court has personal jurisdiction over Defendant ITCS as ITCS has  
21 committed acts of patent infringement in this Judicial District including, *inter alia*,  
22 making, using, offering for sale, and/or selling infringing services, products, software,  
23 components and/or systems in this Judicial District.

24           15. On information and belief, Defendant ITCS has knowingly and actively  
25 infringed, contributed to infringement and/or have induced others to commit such acts  
26 of infringement in this Judicial District.

27           16. On information and belief, Defendant Hustler Casino has engaged in (a)  
28 the installation, maintenance and use of gaming technology services, products and/or

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1 components in the United States, including this Judicial District, including services,  
2 products, software, components and/or systems including casino poker gaming  
3 monitoring/management, waitlisting, marquee/public display, player tracking, player  
4 management, compensation accrual and management and internet solutions either  
5 itself or in concert with Defendant ITCS.

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

10 18. On information and belief, Defendant Hustler Casino has knowingly and  
11 actively infringed, contributed to infringement and/or has induced others to commit  
12 such acts of infringement in this Judicial District.

13 19. On information and belief, Defendant Commerce has engaged in (a) the  
14 installation, maintenance and use of gaming technology services, products and/or  
15 components in the United States, including this Judicial District, including services,  
16 products, software, components and/or systems including casino poker gaming  
17 monitoring/management, waitlisting, player tracking, player management,  
18 marquee/public display, compensation accrual and management and internet solutions  
19 either itself or in concert with each of Defendants Genesis and ITCS.

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

24 21. On information and belief, Defendant Commerce has knowingly and  
25 actively infringed, contributed to infringement and/or has induced others to commit  
26 such acts of infringement in this Judicial District.

27 22. On information and belief, Defendant Hawaiian Gardens has engaged in  
28 (a) the installation, maintenance and use of gaming technology services, products

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1 and/or components in the United States, including this Judicial District, including  
2 services, products, software, components and/or systems including casino poker  
3 gaming monitoring/management, waitlisting, player tracking, player management,  
4 marquee/public display, compensation accrual and management and internet solutions  
5 either itself or in concert with Defendant ITCS.

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

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

13 25. Venue is proper in this Judicial District pursuant to 28 U.S.C. §§ 1391(b)  
14 and (c) and 1400(b) in regards to all Defendants both separately and together.

15 **BACKGROUND**

16 26. Ameranth was established in 1996 to develop and provide innovative  
17 information system and data synchronization technology solutions for the hospitality  
18 industry. Ameranth has been widely recognized as a technology leader in the  
19 provision of wireless and internet-based systems and services to, *inter alia*,  
20 restaurants, hotels, casinos, cruise ships and sports venues and has been awarded  
21 multiple “best product” technology awards, as well as been widely recognized as an  
22 innovator by both national and hospitality/gaming publications. Ameranth’s  
23 inventions enable, in relevant part, gaming and/or casino poker gaming  
24 monitoring/management, waitlisting, tournament, player tracking, marquee/public  
25 display, compensation accrual and management, internet and/or dealer coordination  
26 functions. Ameranth’s Poker Room Manager (PRM) family of products have been  
27 installed in many of the largest and most successful poker rooms around the world and  
28 in the United States including within this Judicial District (which is home to the three

1 largest poker rooms in the world and includes the greatest concentration of poker-  
2 related activities in the world).

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

14 28. Ameranth's pioneering inventions have been widely adopted throughout  
15 the gaming industry and are thus now essential to the efficient operations of modern  
16 casino and/or gaming enterprises of the 21st Century. Ameranth's solutions have  
17 been adopted throughout the hospitality/gaming industry, including by Genesis, ITCS,  
18 Hustler Casino, Commerce, Hawaiian Gardens and many others who have chosen to  
19 infringe rather than take a license to Ameranth's patented technology. In addition, a  
20 number of entities in the hospitality/gaming industry have taken licenses to the  
21 patented technology.

22 29. The widespread adoption of Ameranth's technology by industry leaders  
23 and the wide acclaim received by Ameranth for its many technological innovations are  
24 just some of the many confirmations of the breakthrough aspects of Ameranth's  
25 inventions. Ameranth has received more than 10 major technology awards and has  
26 been widely recognized as an innovator.

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**RELATED CASE PREVIOUSLY FILED**

1  
2           30.    The Ameranth patent asserted herein, U.S. Patent No. 8,393,969 (the  
3 “‘969 patent”), is the third patent to issue in Ameranth’s “Casino Poker and Dealer  
4 Management System” and “Products and Processes for Operations Management of  
5 Casino, Leisure and Hospitality Industry” patent family. The ‘969 patent was issued  
6 over all alleged prior art identified by Genesis and ITCS and with full knowledge and  
7 consideration by the reexamination Examiner of three reexaminations and associated  
8 prior art filed by Genesis and ITCS as is further detailed in the immediately following  
9 paragraph.

10           31.    Ameranth is also currently asserting the first two of its patents (U.S.  
11 Patent No. 7,431,650 (the “‘650 patent”) and U.S. Patent No. 7,878,909 (the “‘909  
12 patent”)) in this family in a separate litigation pending in this Court (*Ameranth v.*  
13 *Genesis et al.*, Case No. 8:11-CV-00189-AG (RNBX) against several parties,  
14 including Genesis, ITCS, Commerce and Hustler Casino. That litigation is currently  
15 stayed pending the outcome of two *ex parte* and one *inter partes* reexaminations.  
16 Both Genesis and ITCS filed *ex parte* reexaminations against the ‘909 patent and  
17 Genesis filed an *inter partes* reexamination against the ‘650 patent. The two *ex parte*  
18 reexaminations were merged by the reexamination Examiner. Both the *ex parte* and  
19 *inter partes* reexaminations led to a majority of the claims being confirmed patentable.  
20 A Notice of Intent to Issue Reexamination Certificate was entered by the Examiner in  
21 the merged ‘909 reexaminations on February 25, 2013 which, when issued, will  
22 conclude the merged reexaminations of the ‘909 patent with a reexamination  
23 certificate confirming the seventeen claims determined patentable by the Examiner.  
24 Genesis has appealed the favorable ruling as to the twenty-seven confirmed claims of  
25 the ‘650 patent.

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**FIRST CLAIM FOR RELIEF**

**Patent Infringement (U.S. Pat. No. 8,393,969)**

**(35 U.S.C. § 271)**

32. Plaintiff reiterates and incorporates the allegations set forth in paragraphs 1-31 above as if fully set forth herein.

33. On March 12, 2013, United States Patent No. 8,393,969 entitled “Products and Processes for Operations Management of Casino, Leisure and Hospitality Industry” (“the ‘969 patent”) (attached hereto as Exhibit A) was duly and legally issued by the United States Patent & Trademark Office.

34. Plaintiff Ameranth is the lawful owner by assignment of all right, title and interest in and to the ‘969 patent.

35. On information and belief, Defendant Genesis infringes and continues to infringe one or more valid and enforceable claims of the ‘969 patent in violation of 35 U.S.C. § 271(a) by making, using, offering for sale or license and/or selling or licensing infringing gaming and/or casino information technology systems including but not limited to systems including monitoring/management of casino poker games, waitlisting, player tracking, player management, marquee/public display, compensation accrual and management and internet functions under the BRAVO trademark and/or tradename in the U.S. without authority or license from Ameranth.

36. On information and belief, Defendant Genesis has actively induced others to infringe the ‘969 patent in violation of 35 U.S.C. § 271(b) by knowingly encouraging, aiding and abetting gaming and/or casino users to use infringing systems, products, and/or services including but not limited to systems, products and/or services including monitoring/management of casino poker games, waitlisting, player tracking, player management, marquee/public display, compensation accrual and management and internet functions under the BRAVO trademark and/or tradename in the U.S. without authority or license from Ameranth. Genesis provides instruction and direction regarding the use of the infringing BRAVO systems,

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1 products and/or services and publicizes, promotes and encourages the use of the  
2 infringing BRAVO systems, products and/or services by others.

3 37. On information and belief, Defendant Genesis has contributorily  
4 infringed the '969 patent in violation of 35 U.S.C. § 271(c) by offering to sell or  
5 license and/or selling or licensing components of systems on which claims of the '969  
6 patent read, constituting a material part of the invention, knowing that the components  
7 were especially adapted for use in systems which infringe claims of the '969 patent to  
8 distributors and/or to gaming and/or casino users for use in infringing systems,  
9 products and/or services including but not limited to systems, products and/or services  
10 including monitoring/management of casino poker games, waitlisting, player tracking,  
11 player management, marquee/public display, compensation accrual and management  
12 and internet functions under the BRAVO trademark and/or tradename in the U.S.  
13 without authority or license from Ameranth. By distributing, selling, licensing and/or  
14 offering to sell or license infringing systems, products and or services under the  
15 BRAVO trademark and/or tradename, Genesis provides non-staple articles of  
16 commerce to others for use in infringing systems, products and/or services.  
17 Additionally, Genesis provides instruction and direction regarding the use of the  
18 aforesaid systems, products and/or services and publicizes, promotes and encourages  
19 the use of the infringing systems. Users of the aforesaid systems, products and/or  
20 services directly infringe one or more valid and enforceable claims of the '969 patent  
21 for the reasons set forth hereinabove.

22 38. On information and belief, Defendant ITCS has infringed the '969 patent  
23 in violation of 35 U.S.C. § 271(a) by making, using, offering for sale or license and/or  
24 selling or licensing infringing gaming and/or casino information technology systems  
25 including but not limited to systems including monitoring/management of casino  
26 poker games, waitlisting, player tracking, player management, marquee/public  
27 display, compensation accrual and management and internet functions under the IT  
28

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1 Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames in the  
2 U.S. without authority or license from Ameranth.

3 39. On information and belief, Defendant ITCS has actively induced others  
4 to infringe the '969 patent in violation of 35 U.S.C. § 271(b) by knowingly  
5 encouraging, aiding and abetting gaming and/or casino users to use infringing  
6 systems, products and/or services including but not limited to systems, products  
7 and/or services including monitoring/management of casino poker games, waitlisting,  
8 player tracking, player management, marquee/public display, compensation accrual  
9 and management and internet functions under the IT Casino Solutions, ITC, ITCS  
10 and/or ISIS M3 trademarks and/or tradenames in the U.S. without authority or license  
11 from Ameranth. ITCS provides instruction and direction regarding the use of the  
12 aforesaid infringing systems, products and/or services and publicizes, promotes and  
13 encourages the use of the infringing systems, products and/or services by others.

14 40. On information and belief, Defendant ITCS has contributorily infringed  
15 the '969 patent in violation of 35 U.S.C. § 271(c) by offering to sell or license and/or  
16 selling or licensing components of systems on which claims of the '969 patent read,  
17 constituting a material part of the invention, knowing that the components were  
18 especially adapted for use in systems which infringe claims of the '969 patent to  
19 distributors and/or to gaming and/or casino users for use in infringing systems,  
20 products and/or services including but not limited to systems, products and/or services  
21 including monitoring/management of casino poker games, waitlisting, player tracking,  
22 player management, marquee/public display, compensation accrual and management  
23 and internet functions under the IT Casino Solutions, ITC, ITCS and/or ISIS M3  
24 trademarks and/or tradenames in the U.S. without authority or license from Ameranth.  
25 By distributing, selling, licensing and/or offering to sell or license infringing systems,  
26 products and or services under the aforesaid trademarks and/or tradenames, ITCS  
27 provides non-staple articles of commerce to others for use in infringing systems,  
28 products and/or services. Additionally, ITCS provides instruction and direction

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1 regarding the use of the aforesaid systems, products and/or services and publicizes,  
2 promotes and encourages the use of the infringing systems. Users of the aforesaid  
3 systems, products and/or services directly infringe one or more valid and enforceable  
4 claims of the '969 patent for the reasons set forth hereinabove.

5 41. On information and belief, Defendant Hustler Casino has infringed the  
6 '969 patent in violation of 35 U.S.C. § 271(a) by making or using infringing gaming  
7 and/or casino information technology systems including but not limited to systems  
8 including monitoring/management of casino poker games, waitlisting, player tracking,  
9 player management, marquee/public display, compensation accrual and management  
10 and internet functions either itself or in concert with Defendant ITCS in the U.S.  
11 without authority or license from Ameranth.

12 42. On information and belief, Defendant Hustler Casino has actively  
13 induced others to infringe the '969 patent in violation of 35 U.S.C. § 271(b) by  
14 knowingly encouraging, aiding and abetting gaming and/or casino users to use  
15 infringing systems, products and/or services including but not limited to systems,  
16 products and/or services including monitoring/management of casino poker games,  
17 waitlisting, player tracking, player management, marquee/public display,  
18 compensation accrual and management and internet functions either itself or in  
19 concert with Defendant ITCS in the U.S. without authority or license from Ameranth.  
20 Hustler Casino provides instruction and direction regarding the use of the aforesaid  
21 infringing systems, products and/or services and advertises, publicizes, promotes and  
22 encourages the use of the infringing systems, products and/or services by others.

23 43. On information and belief, Defendant Hustler Casino has contributorily  
24 infringed the '969 patent in violation of 35 U.S.C. § 271(c) by providing components  
25 of systems on which claims of the '969 patent read, constituting a material part of the  
26 invention, knowing that the components were especially adapted for use in systems  
27 which infringe claims of the '969 patent, to gaming and/or casino users for use in  
28 infringing systems/products and/or services including but not limited to systems,

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1 products and/or services including monitoring/management of casino poker games,  
2 waitlisting, player tracking, player management, marquee/public display,  
3 compensation accrual and management and internet functions either itself or in  
4 concert with Defendant ITCS without authority or license from Ameranth.

5 44. On information and belief, Defendant Commerce has infringed the '969  
6 patent in violation of 35 U.S.C. § 271(a) by making and/or using infringing gaming  
7 and/or casino information technology systems including but not limited to systems  
8 including monitoring/management of casino poker games, waitlisting, player tracking,  
9 player management, marquee/public display, compensation accrual and management  
10 and internet functions either itself or in concert with each of Defendants Genesis and  
11 ITCS in the U.S. without authority or license from Ameranth.

12 45. On information and belief, Defendant Commerce has actively induced  
13 others to infringe the '969 patent in violation of 35 U.S.C. §271(b) by knowingly  
14 encouraging, aiding and abetting gaming and/or casino users to use infringing  
15 systems, products and/or services including but not limited to systems, products  
16 and/or services including monitoring/management of casino poker games, waitlisting,  
17 player tracking, player management, marquee/public display, compensation accrual  
18 and management and internet functions either itself or in concert with each of  
19 Defendants Genesis and ITCS in the U.S. without authority or license from Ameranth.  
20 Commerce provides instruction and direction regarding the use of the aforesaid  
21 infringing systems, products and/or services and advertises, publicizes, promotes and  
22 encourages the use of the infringing systems, products and/or services by others.

23 46. On information and belief, Defendant Commerce has contributorily  
24 infringed the '969 patent in violation of 35 U.S.C. §271(c) by providing components  
25 of systems on which claims of the '969 patent read, constituting a material part of the  
26 invention, knowing that the components were especially adapted for use in systems  
27 which infringe claims of the '969 patent, to gaming and/or casino users for use in  
28 infringing systems, products and/or services including but not limited to systems and

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1 services including monitoring/management of casino poker games, waitlisting, player  
2 tracking, player management, marquee/public display, compensation accrual and  
3 management and internet functions either itself or in concert with each of Defendants  
4 Genesis and ITCS without authority or license from Ameranth.

5 47. On information and belief, Defendant Hawaiian Gardens has infringed  
6 the '969 patent in violation of 35 U.S.C. § 271(a) by making and/or using infringing  
7 gaming and/or casino information technology systems including but not limited to  
8 systems including monitoring/management of casino poker games, waitlisting, player  
9 tracking, player management, marquee/public display, compensation accrual and  
10 management and internet functions either itself or in concert with Defendant ITCS in  
11 the U.S. without authority or license from Ameranth.

12 48. On information and belief, Defendant Hawaiian Gardens has actively  
13 induced others to infringe the '969 patent in violation of 35 U.S.C. §271(b) by  
14 knowingly encouraging, aiding and abetting gaming and/or casino users to use  
15 infringing systems, products and/or services including but not limited to systems,  
16 products and/or services including monitoring/management of casino poker games,  
17 waitlisting, player tracking, player management, marquee/public display,  
18 compensation accrual and management and internet functions either itself or in  
19 concert with Defendant ITCS in the U.S. without authority or license from Ameranth.  
20 Hawaiian Gardens provides instruction and direction regarding the use of the  
21 aforesaid infringing systems, products and/or services and advertises, publicizes,  
22 promotes and encourages the use of the infringing systems, products and/or services  
23 by others.

24 49. On information and belief, Defendant Hawaiian Gardens has  
25 contributorily infringed the '969 patent in violation of 35 U.S.C. §271(c) by providing  
26 components of systems on which claims of the '969 patent read, constituting a  
27 material part of the invention, knowing that the components were especially adapted  
28 for use in systems which infringe claims of the '969 patent, to gaming and/or casino

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Los Angeles, CA, 90071-3119

1 users for use in infringing systems, products and/or services including but not limited  
2 to systems and services including monitoring/management of casino poker games,  
3 waitlisting, player tracking, player management, marquee/public display,  
4 compensation accrual and management and internet functions either itself or in  
5 concert with Defendant ITCS without authority or license from Ameranth.

6 50. If Defendants do not cease and desist the aforesaid infringing activities,  
7 and instead continue to infringe valid and enforceable claims of the '969 patent after  
8 the date of filing and/or service of this complaint, then such infringing actions will  
9 have been done with knowledge and willful disregard of Ameranth's patent rights,  
10 making this an exceptional case within the meaning of 35 U.S.C. § 285.

11 51. The aforesaid infringing activity of Defendants directly and proximately  
12 causes damage to plaintiff Ameranth, including loss of profits from sales they would  
13 have made but for the infringements. Unless enjoined, the aforesaid infringing  
14 activity will continue and cause irreparable injury to plaintiff for which there is no  
15 adequate remedy at law.

16 **PRAYER FOR RELIEF**

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

19 A. Adjudging that the manufacture, use, offer for sale or license and/or sale  
20 or license of Genesis's systems, products, services, software and/or hardware  
21 including those under the BRAVO trademark and/or tradename infringes the '969  
22 patent;

23 B. Adjudging that the manufacture, use, offer for sale or license and/or sale  
24 or license of ITCS's systems products, services and/or software including those under  
25 the IT Casino Solutions, ITC, ITCS and/or ISIS M3 trademarks and/or tradenames  
26 infringes the '969 patent;

27 C. Adjudging that the making and/or use of Hustler Casino's gaming and/or  
28 casino poker monitoring/management, waitlisting, player tracking, player

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1 management, marquee/public display, compensation accrual and management and  
2 internet systems, products, services and/or software infringes the '969 patent;

3 D. Adjudging that the making and/or use of Commerce's gaming and/or  
4 casino poker monitoring/management, waitlisting, player tracking, player  
5 management, marquee/public display, compensation accrual and management and  
6 internet systems, products, services and/or software infringes the '969 patent;

7 E. Adjudging that the making and/or use of Hawaiian Garden's gaming  
8 and/or casino poker monitoring/management, waitlisting, player tracking, player  
9 management, marquee/public display, compensation accrual and management and  
10 internet systems, products, services and/or software infringes the '969 patent;

11 F. Adjudging that all Defendants have infringed, actively induced others to  
12 infringe and/or contributorily infringed the '969 patent;

13 G. Adjudging that infringement of the '969 patent by each Defendant has  
14 been willful;

15 H. Enjoining each Defendant, its officers, directors, employees, attorneys,  
16 agents, representatives, parents, subsidiaries, affiliates and all other persons acting in  
17 concert, participation or privity with them, and their successors and assigns, from  
18 infringing, contributorily infringing and/or inducing others to infringe the '969 patent;

19 I. Awarding Ameranth the damages it has sustained by reason of  
20 Defendants' infringement, together with interest and costs pursuant to 35 U.S.C. §  
21 284;

22 J. Awarding Ameranth increased damages of three times the amount found  
23 or assessed by reason of the willful and deliberate nature of Defendants' acts of  
24 infringement pursuant to 35 U.S.C. § 284;

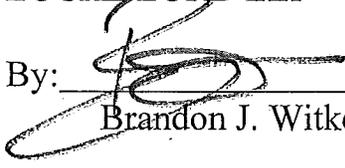
25 K. Adjudging this to be an exceptional case and awarding Ameranth its  
26 attorney fees pursuant to 35 U.S.C. §285; and

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

1 Dated: March 12, 2013

Respectfully submitted,

2 LOCKE LORD LLP

3  
4 By:   
5 Brandon J. Witkow

6 OSBORNE LAW LLC  
7 John W. Osborne

8 WATTS LAW OFFICES  
9 Ethan M. Watts

10 Attorneys for *Plaintiff* AMERANTH, INC.

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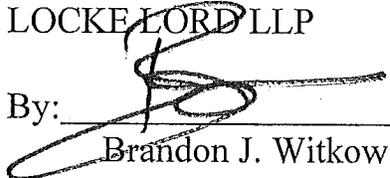
**DEMAND FOR JURY TRIAL**

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: March 12, 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"**



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

(10) Patent No.: **US 8,393,969 B2**  
 (45) Date of Patent: **\*Mar. 12, 2013**

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

(75) Inventors: **Marc 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 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/004,405**

(22) Filed: **Jan. 11, 2011**

(65) **Prior Publication Data**

US 2011/0105223 A1 May 5, 2011

**Related U.S. Application Data**

(60) Continuation of application No. 12/043,829, filed on Mar. 6, 2008, now Pat. No. 7,878,909, which is a 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  
 See application file for complete search history.

(56) **References Cited**

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2007/0004518	A1	1/2007	Friesen et al.	

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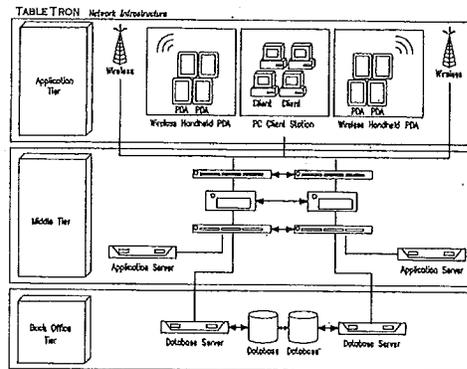
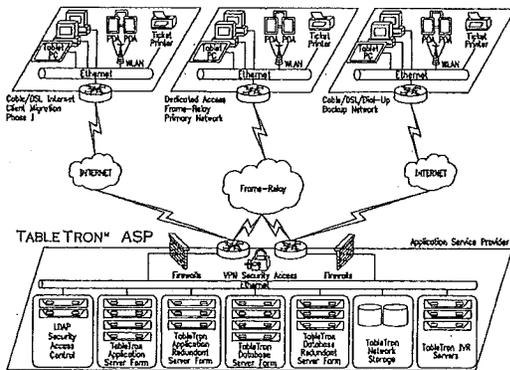
*Primary Examiner* — Masud Ahmed

(74) *Attorney, Agent, or Firm* — Osborne Law LLC

(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.

**42 Claims, 95 Drawing Sheets**



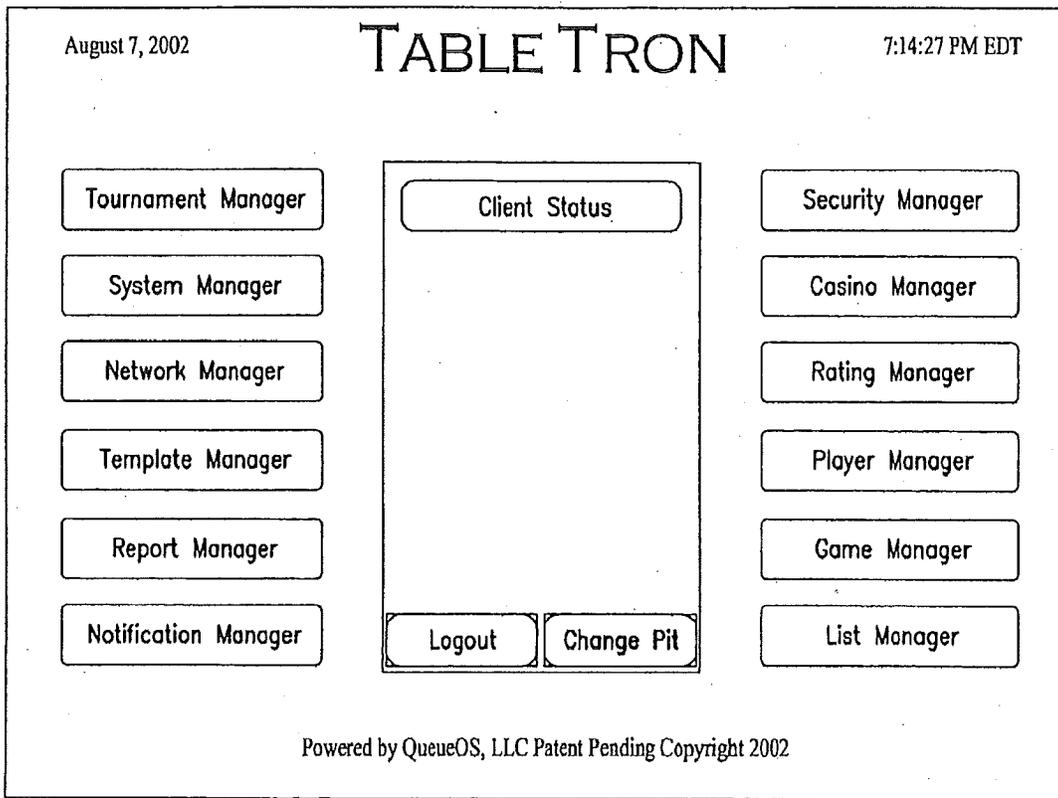
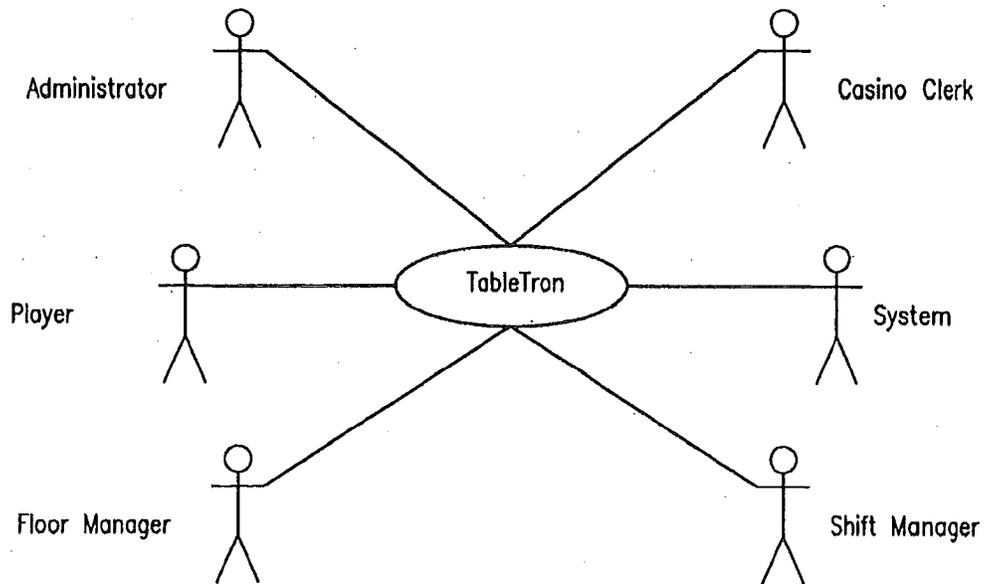


FIG. 1



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

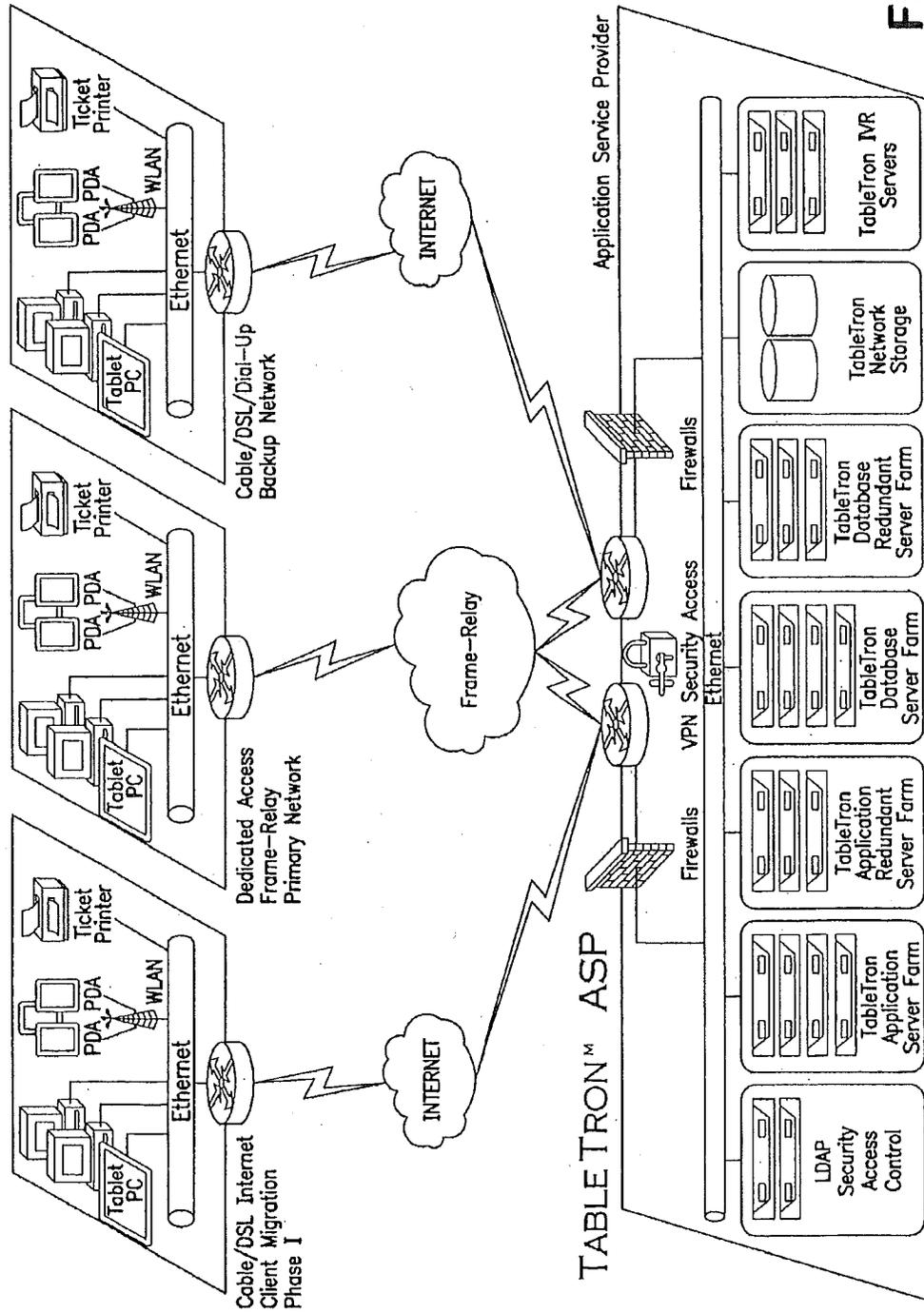


FIG. 3

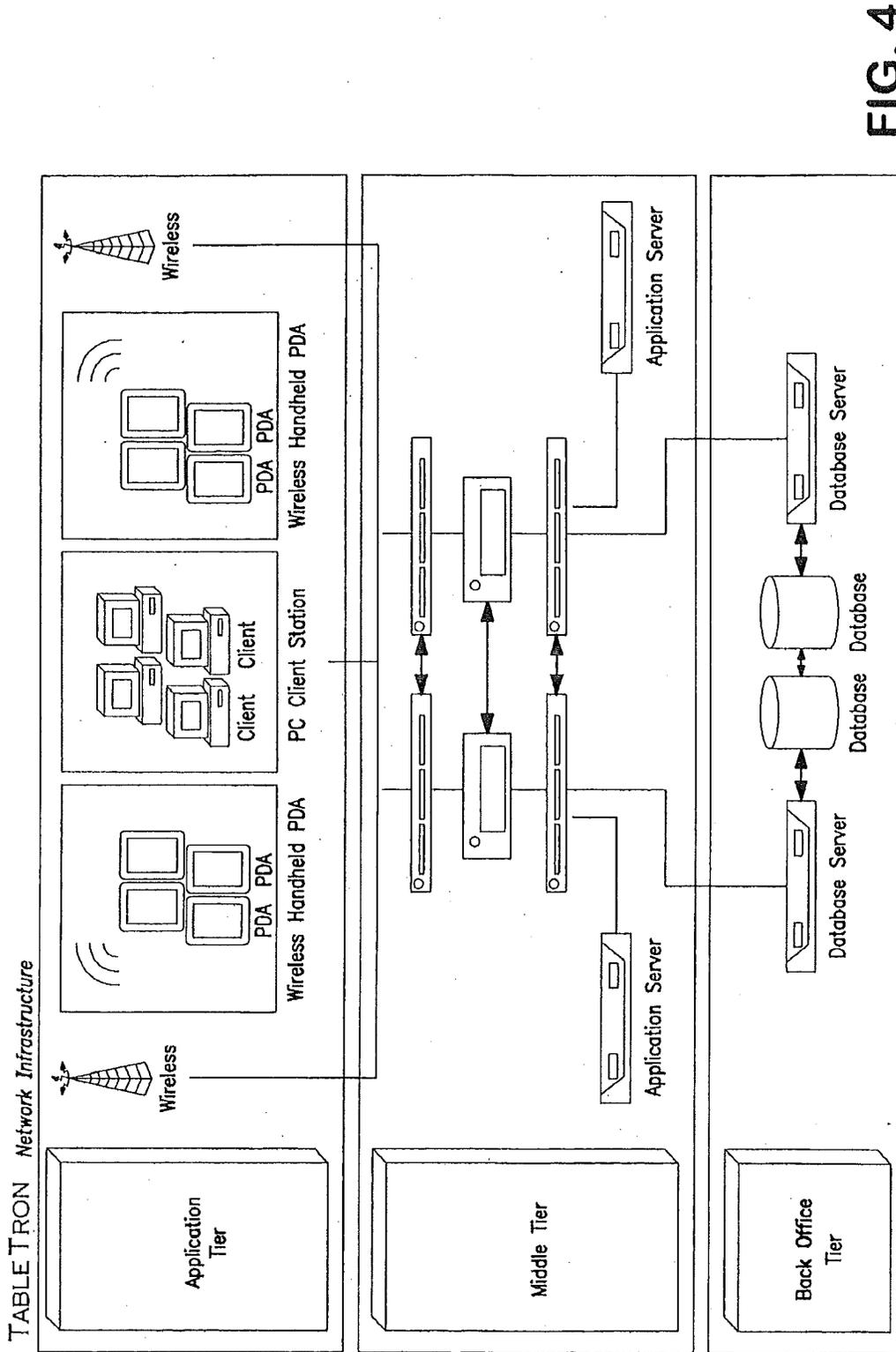
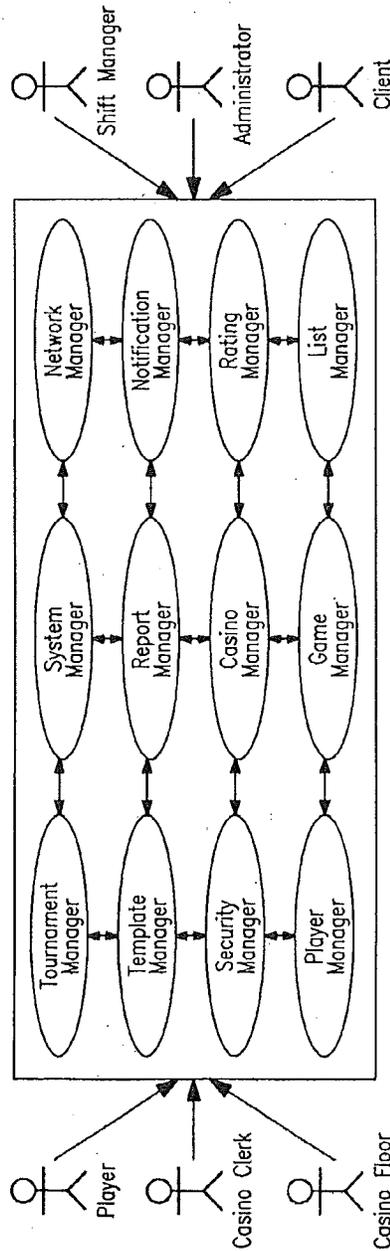
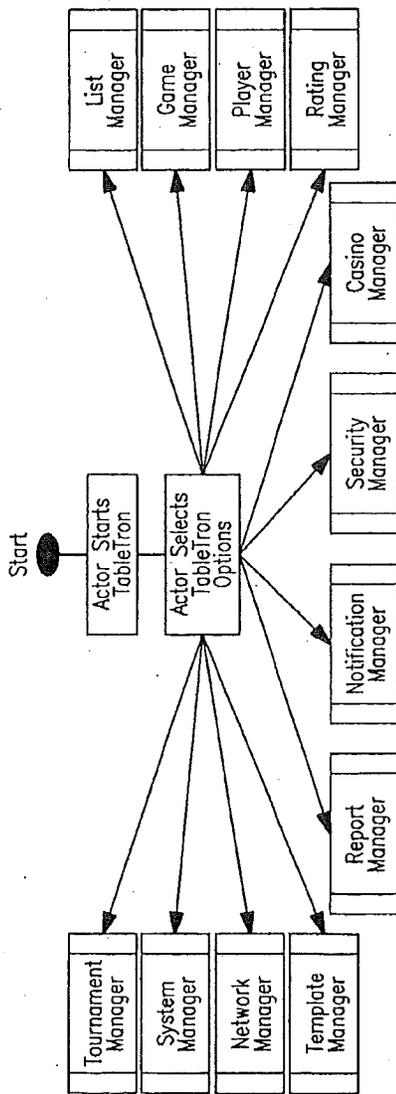


FIG. 4

*TableTron*  
TableTron Process



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**

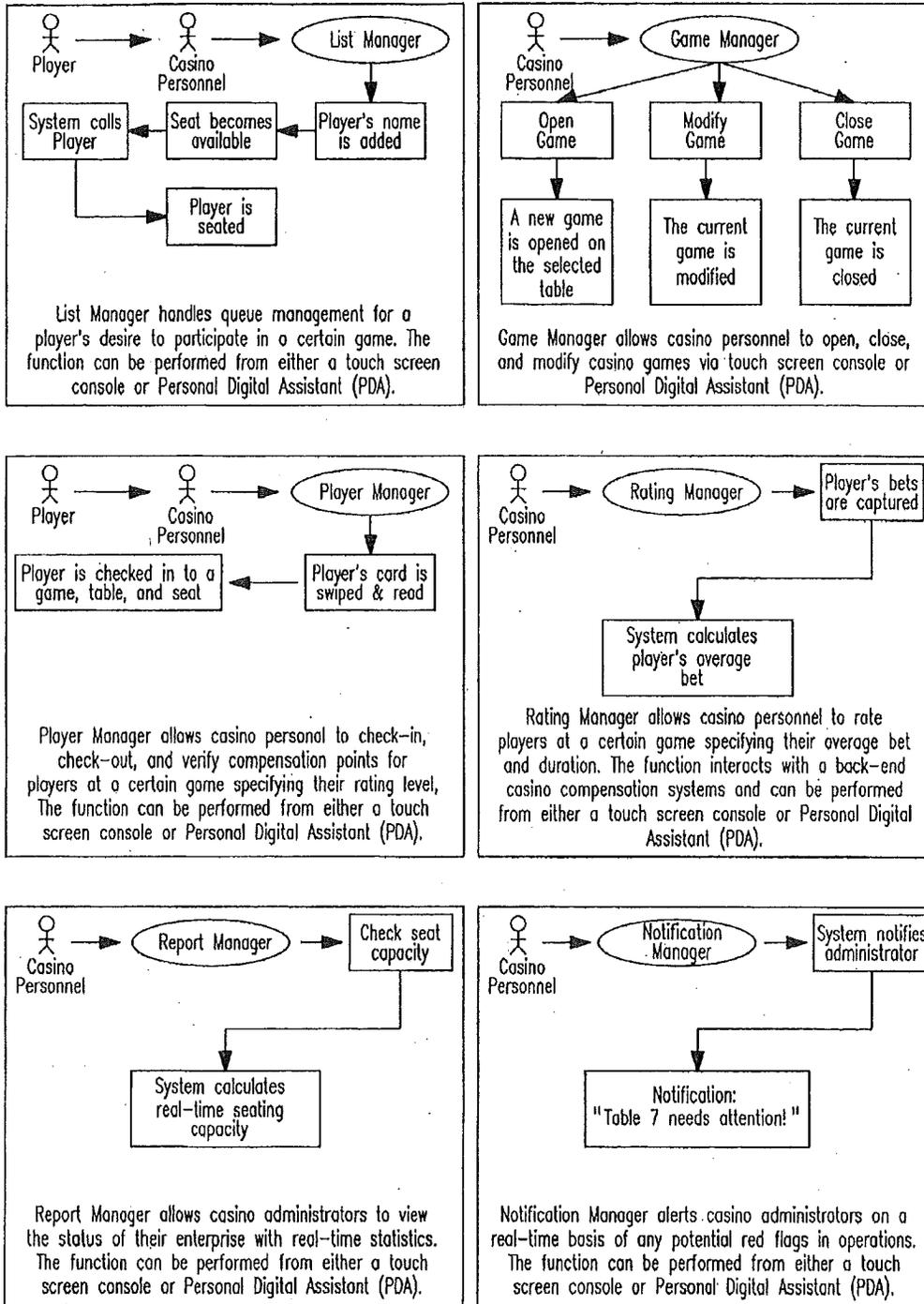


FIG. 6

U.S. Patent

Mar. 12, 2013

Sheet 7 of 95

US 8,393,969 B2

July 1, 2002	Poker Room * QueueOS * Poker Room	4:51:39 PM EDT	
<b>TOURNAMENT MANAGER</b>			
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	<b>Winner's Circle</b>	Tables Remaining: 14	
Break Time Remaining: 00:00:00	1st Place: \$1809.00 (67%)	Players Remaining: 135	
Re-Buy Time Remaining: 00:00:00	2nd Place: \$405.00 (15%)	Re-Buys: 0/2	
	3rd Place: \$270.00 (10%)		
	4th Place: \$135.00 (5%)		
	5th Place: \$81.00 (3%)		
Powered by QueueOS, LLC ** Patent Pending Copyright 2002			

**FIG. 7**

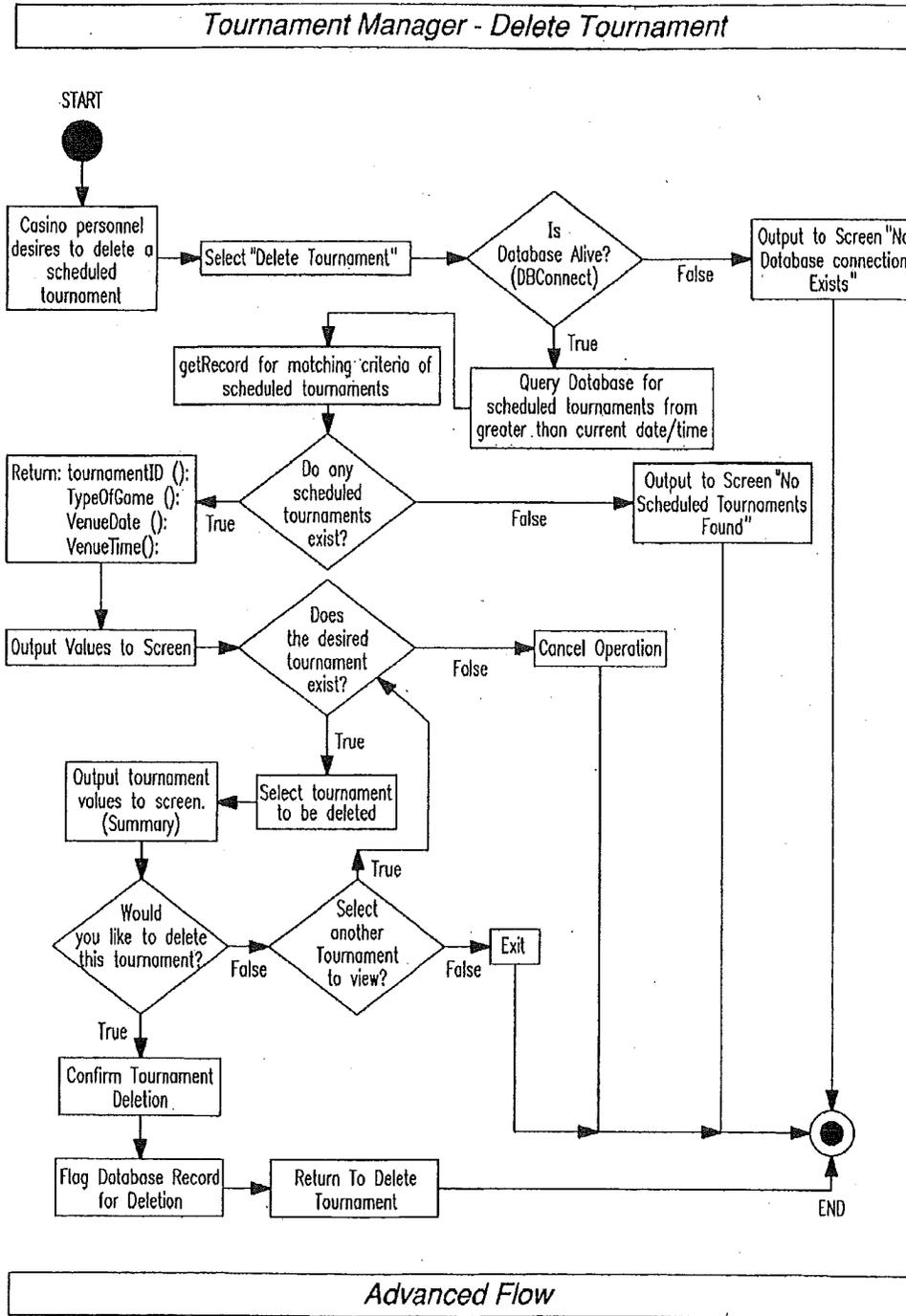


FIG. 8

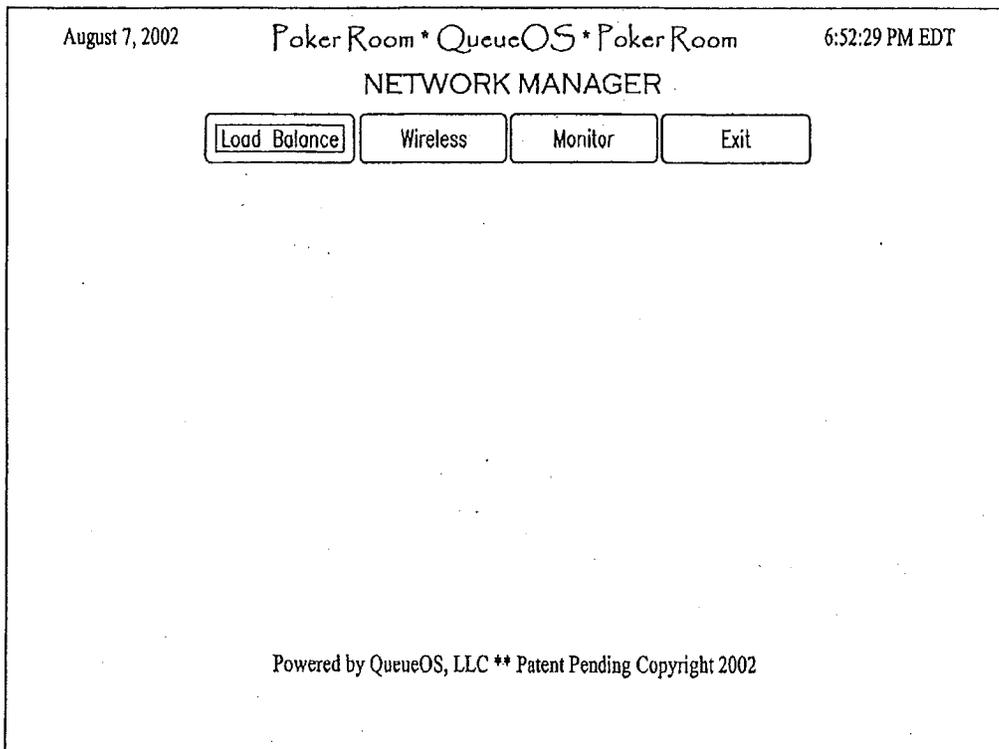


FIG. 9

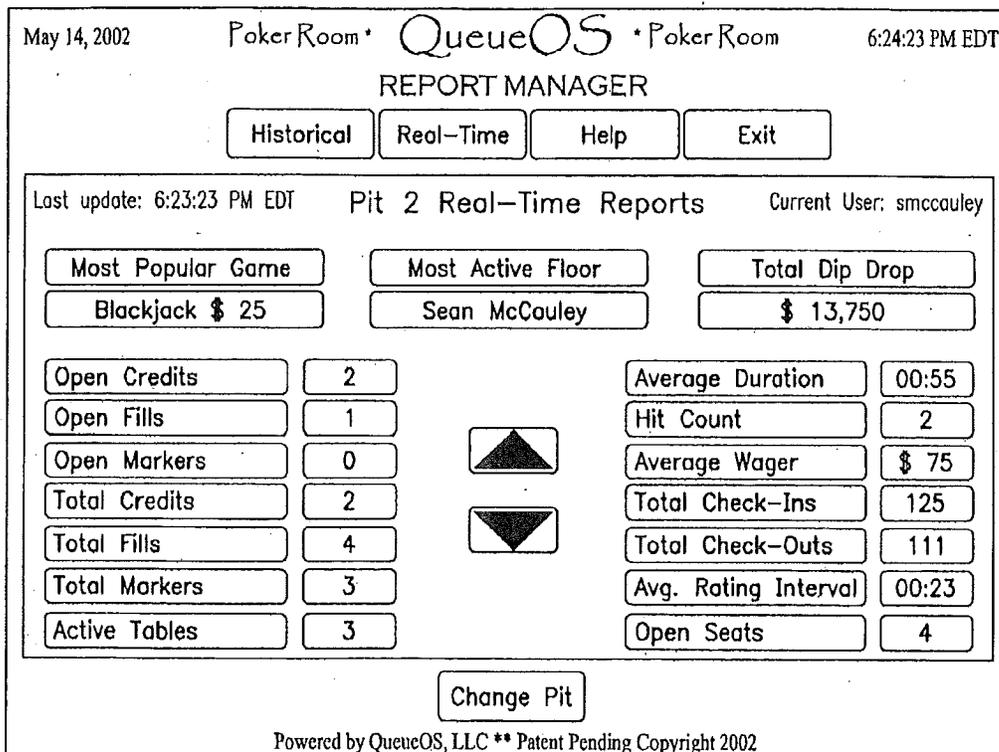


FIG. 10

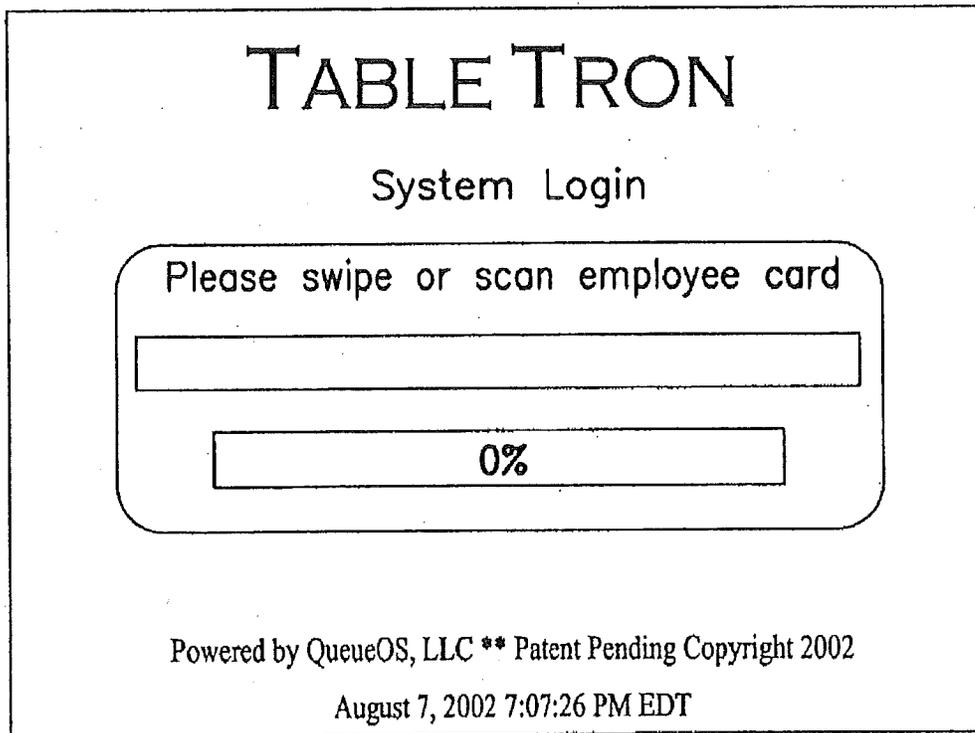


FIG. 11

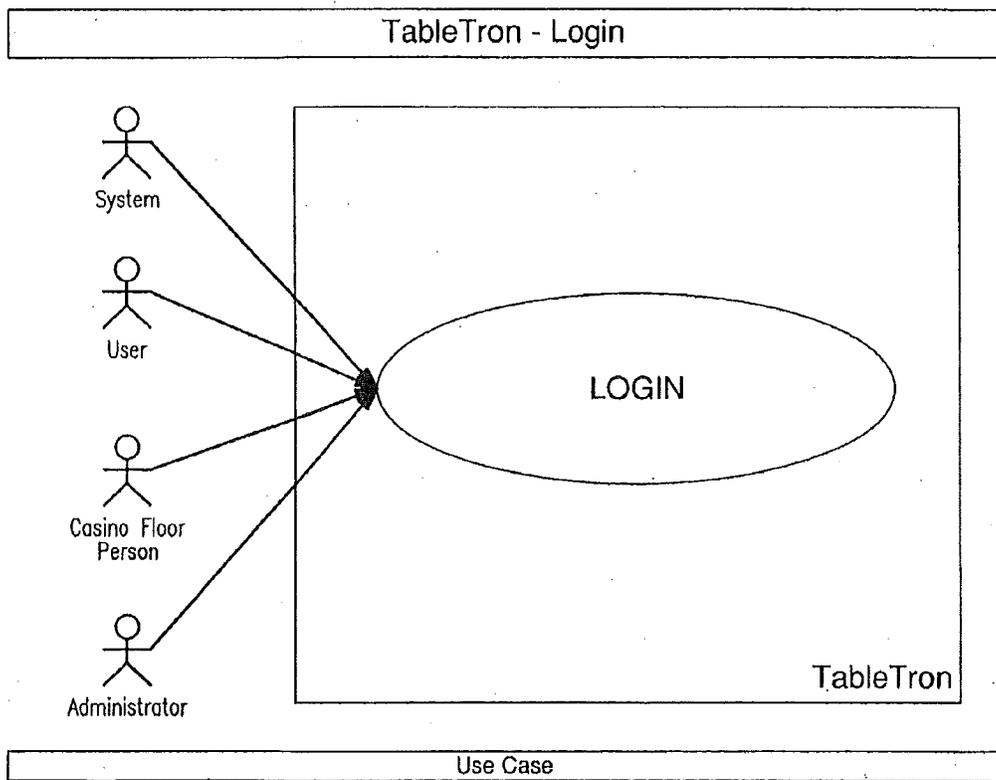


FIG. 12

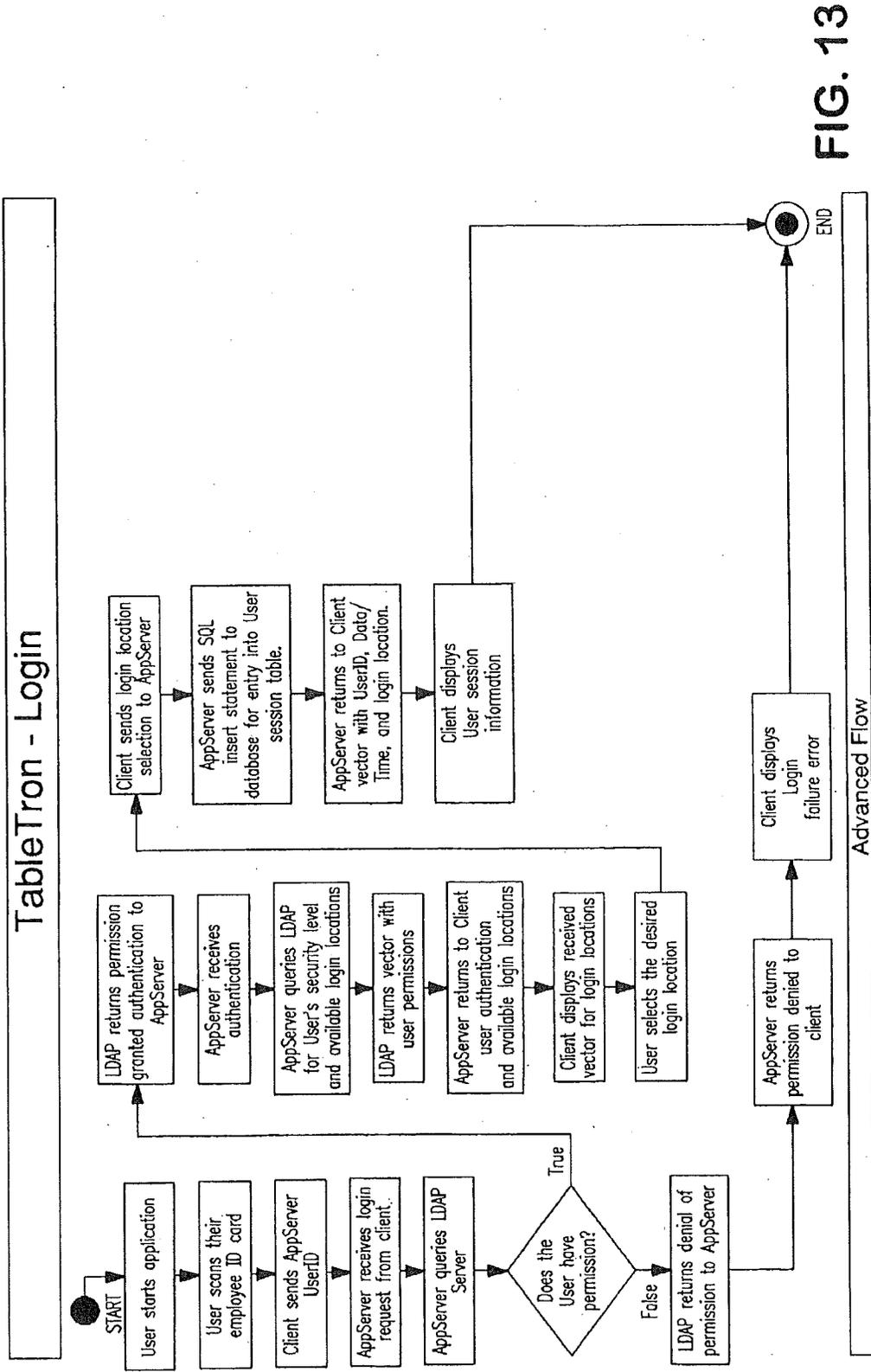


FIG. 13

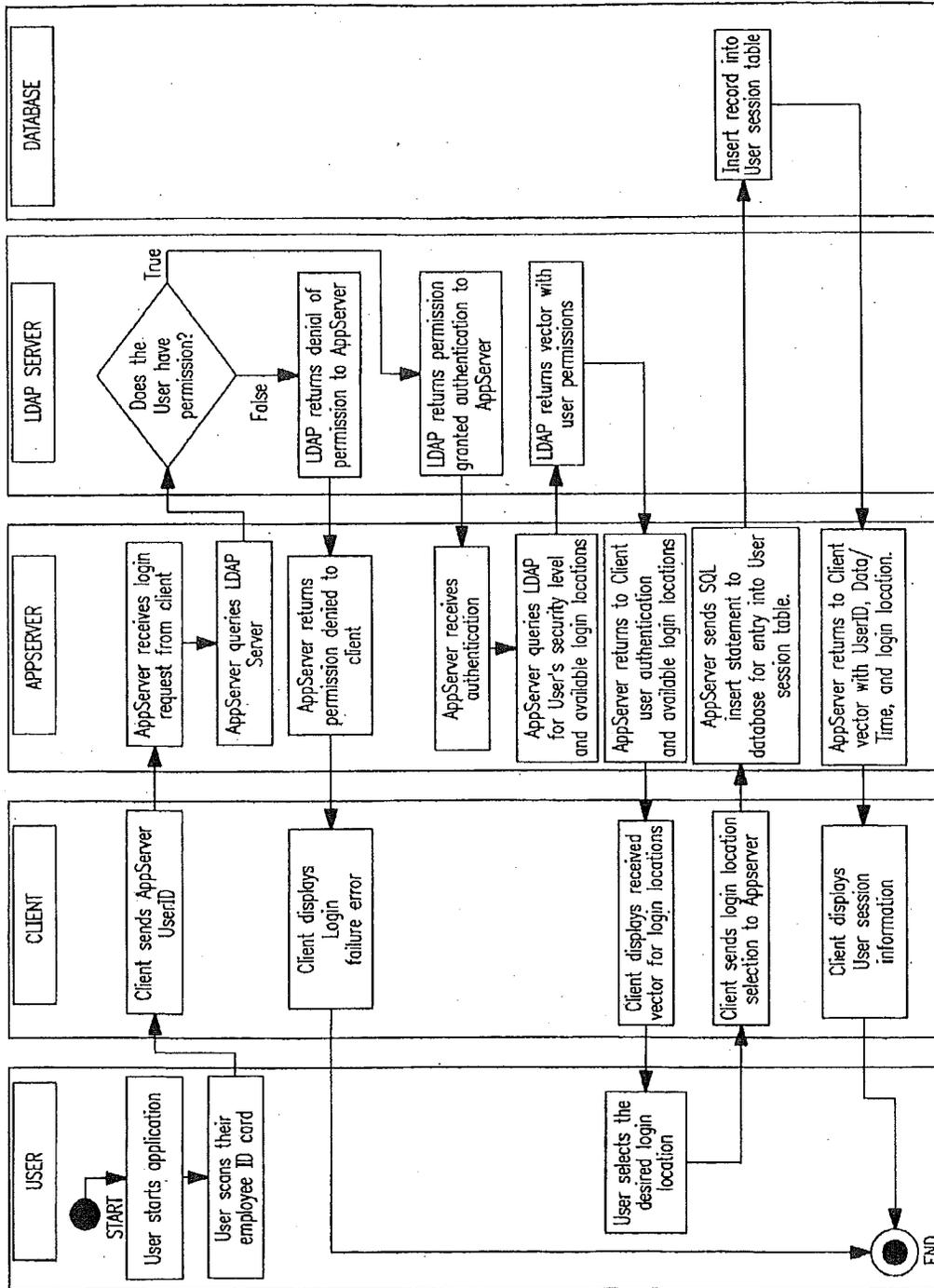
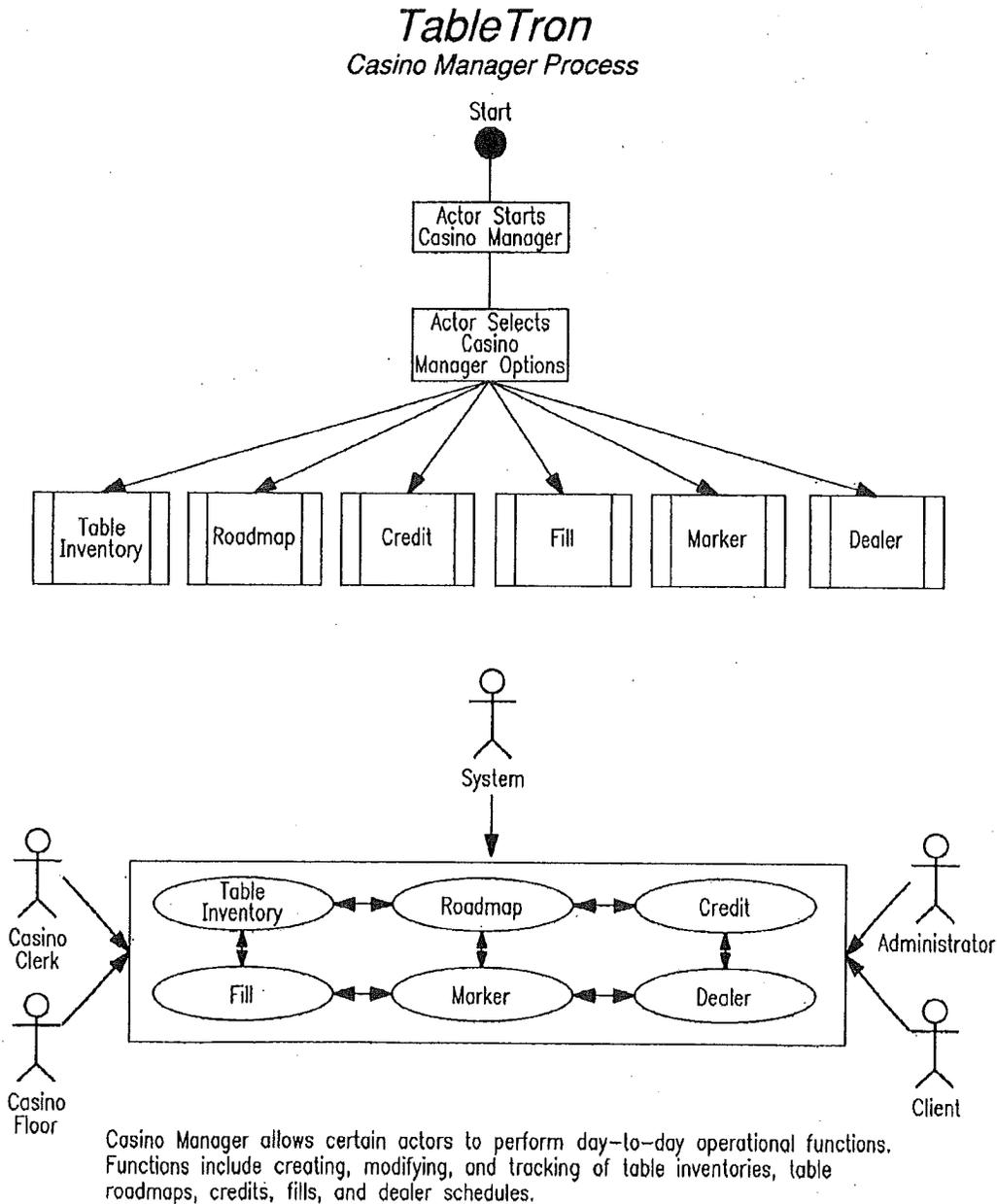


FIG. 14

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		0	+	-	\$5
\$0.50	+	-	0		0	+	-	\$25
\$1	+	-	0	\$8800	300	+	-	\$100
\$1T	+	-	0		3500	+	-	\$500
\$3	+	-	0		5000	+	-	\$1000
Next								

FIG. 15



**FIG. 16**

August 7, 2002	Poker Room • QueueOS • Poker Room	5:28:21 PM EDT								
<b>RATING MANAGER</b>										
<input type="button" value="Exit"/>										
Please select a table										
<input type="button" value="1"/>	<input type="button" value="3"/>	<input type="button" value="5"/>	<input type="button" value="7"/>	<input type="button" value="8"/>	<input type="button" value="18"/>	<input type="button" value="26"/>	<input type="button" value="30"/>			
Please select a seat										
<input type="button" value="3"/>	<input type="button" value="1"/>	<input type="button" value="5"/>								
Player wager										
<input type="button" value="0"/>	<input checked="" type="button" value="X"/>	<input type="button" value="\$1"/>	<input type="button" value="+"/>	<input type="button" value="-"/>	<input type="button" value="1"/>	<input checked="" type="button" value="X"/>	<input type="button" value="\$100"/>	<input type="button" value="+"/>	<input type="button" value="-"/>	
<input type="button" value="0"/>	<input checked="" type="button" value="X"/>	<input type="button" value="\$5"/>	<input type="button" value="+"/>	<input type="button" value="-"/>	<input type="button" value="\$100"/>	<input type="button" value="0"/>	<input checked="" type="button" value="X"/>	<input type="button" value="\$500"/>	<input type="button" value="+"/>	<input type="button" value="-"/>
<input type="button" value="0"/>	<input checked="" type="button" value="X"/>	<input type="button" value="\$25"/>	<input type="button" value="+"/>	<input type="button" value="-"/>	<input type="button" value="0"/>	<input checked="" type="button" value="X"/>	<input type="button" value="\$100"/>	<input type="button" value="+"/>	<input type="button" value="-"/>	
<input type="button" value="Duration: 0 Hours 5 Minutes"/>										
<input type="button" value="Average Bet: 75"/>										
<input type="button" value="Submit"/>										

FIG. 17

August 7, 2002      Poker Room \* QueuoS \* 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

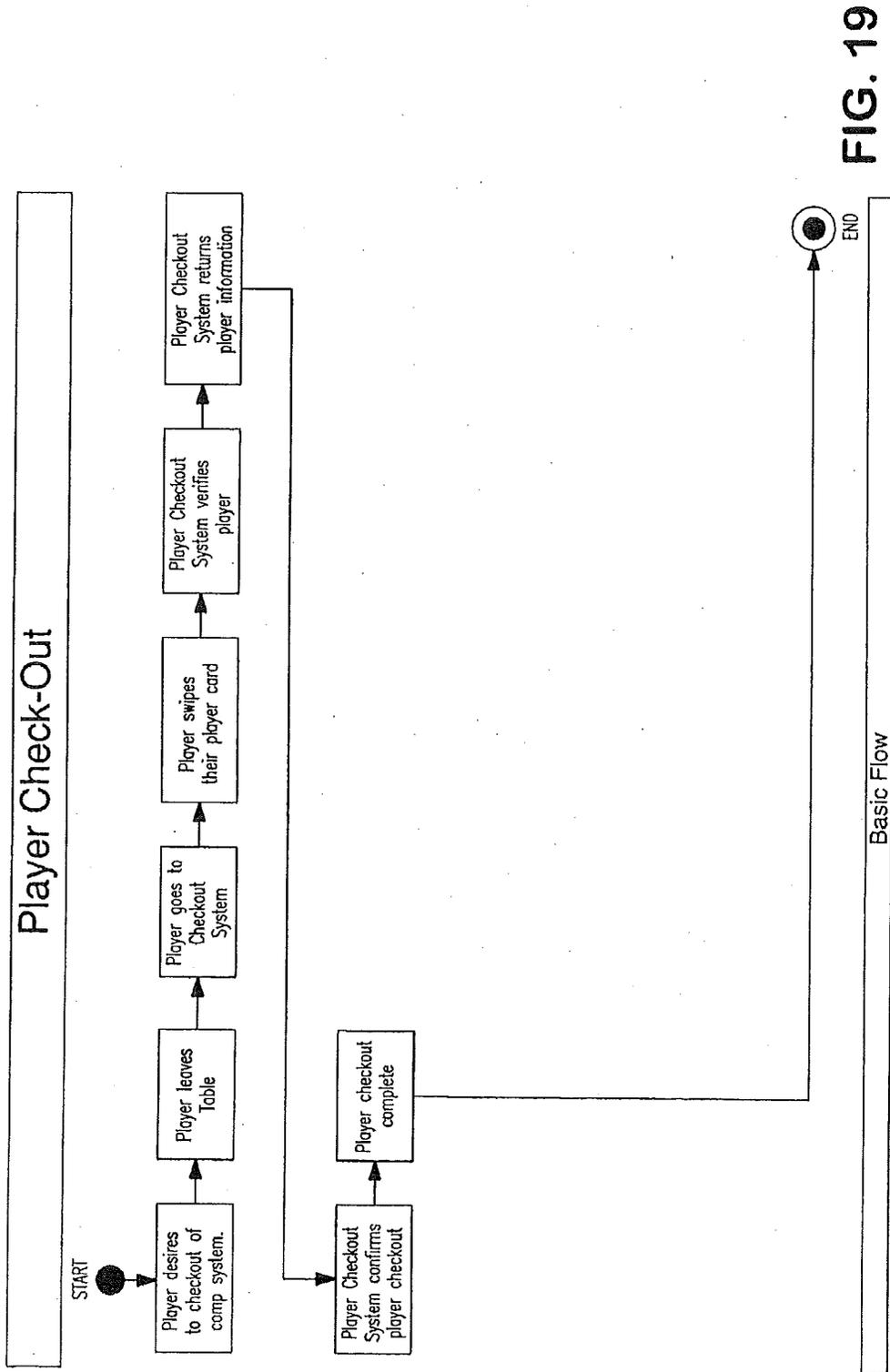


FIG. 19

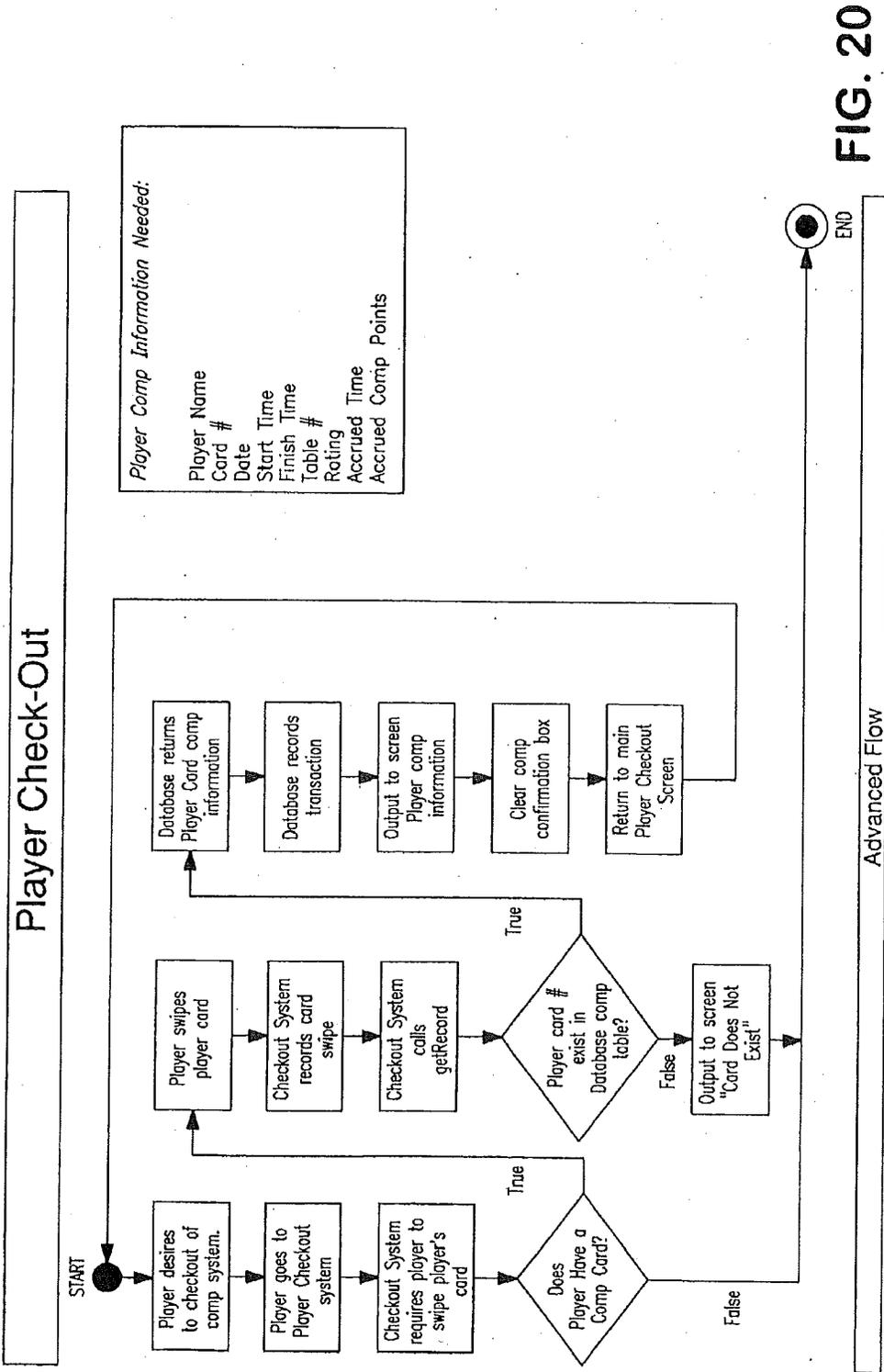


FIG. 20

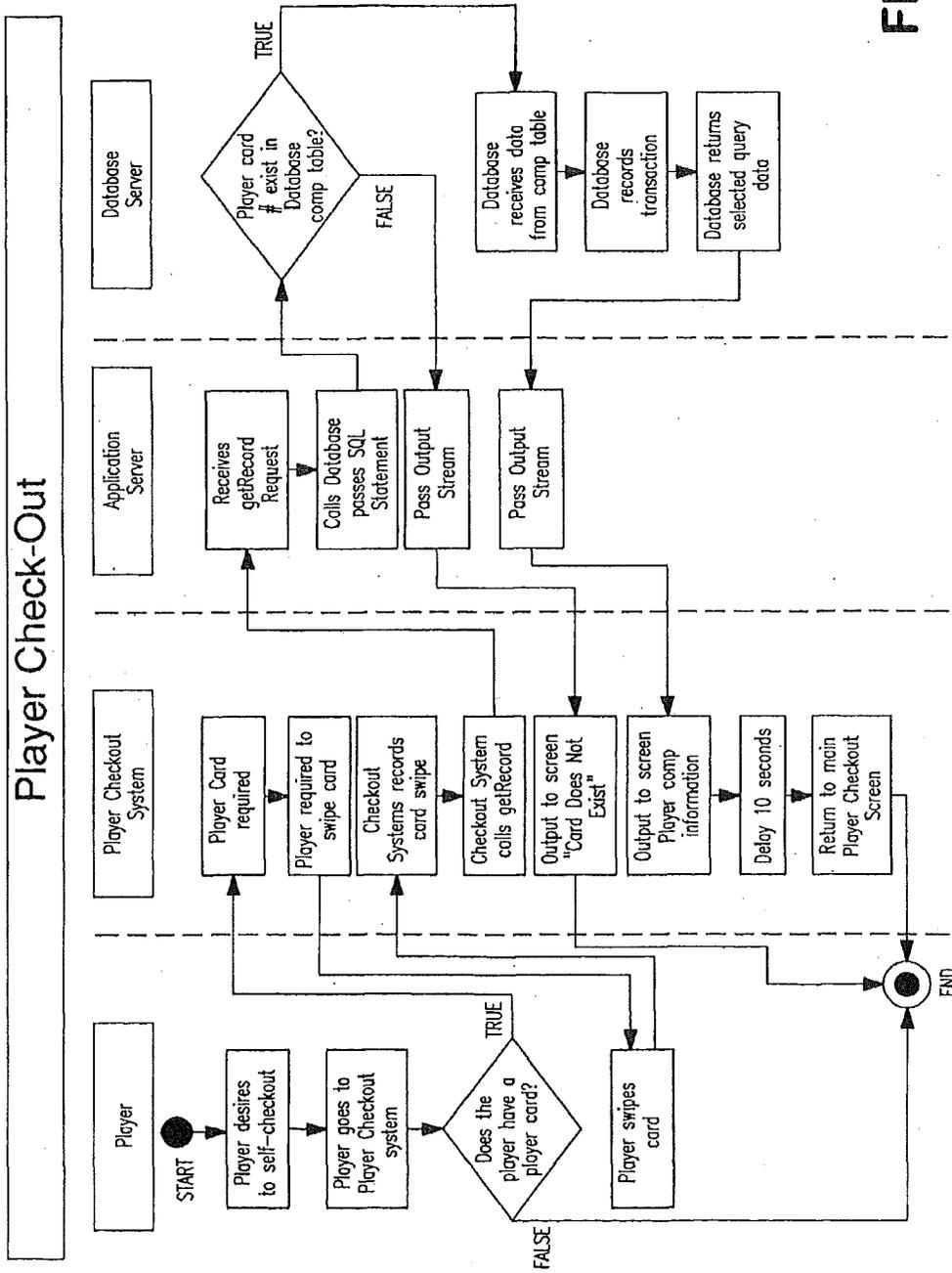


FIG. 21



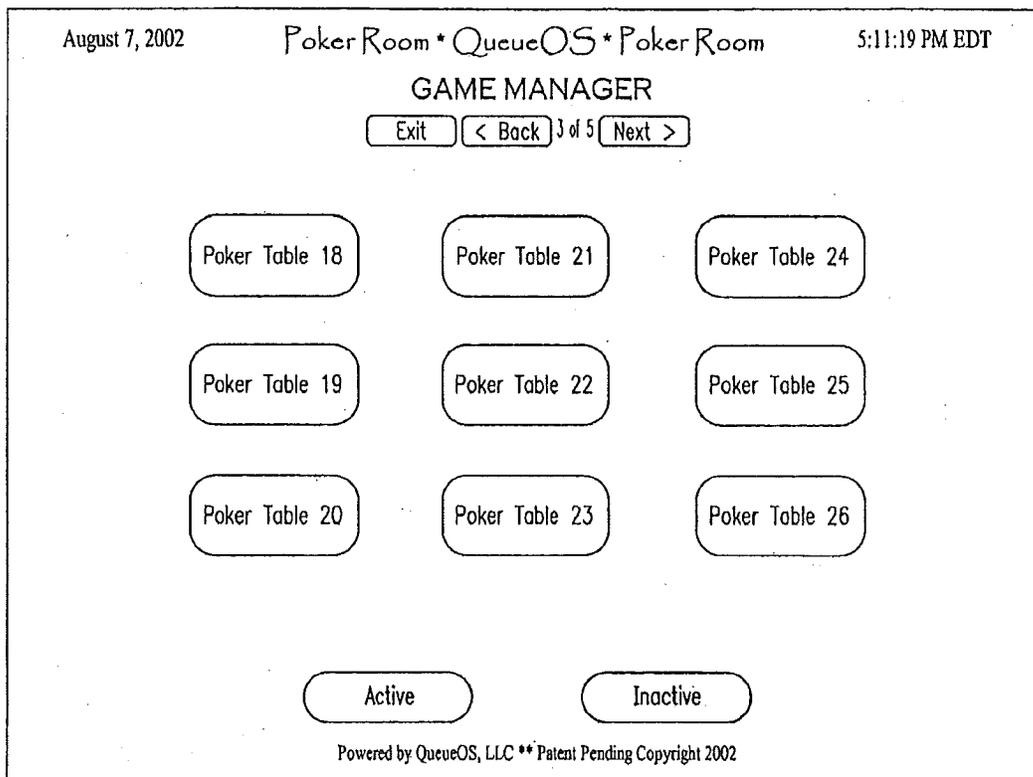
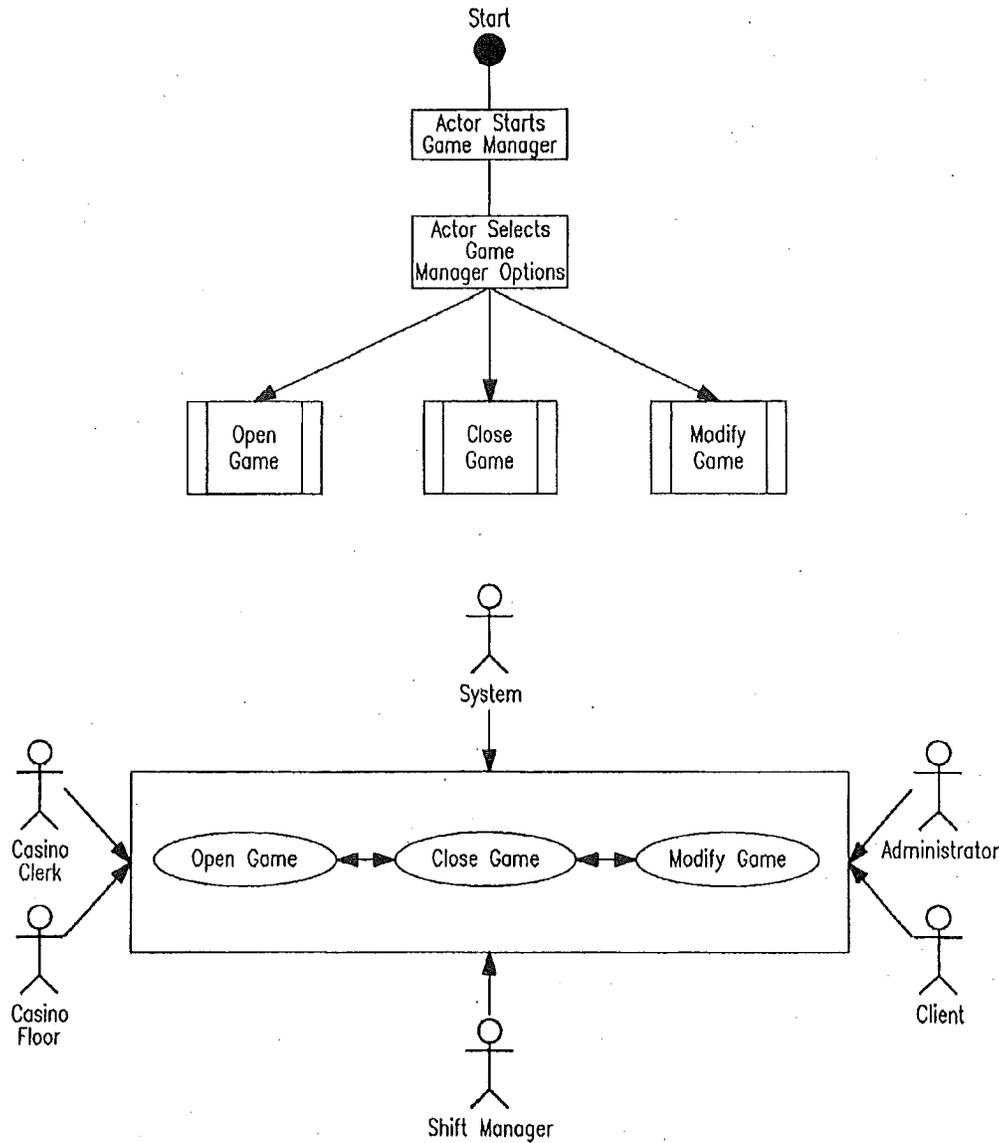


FIG. 23

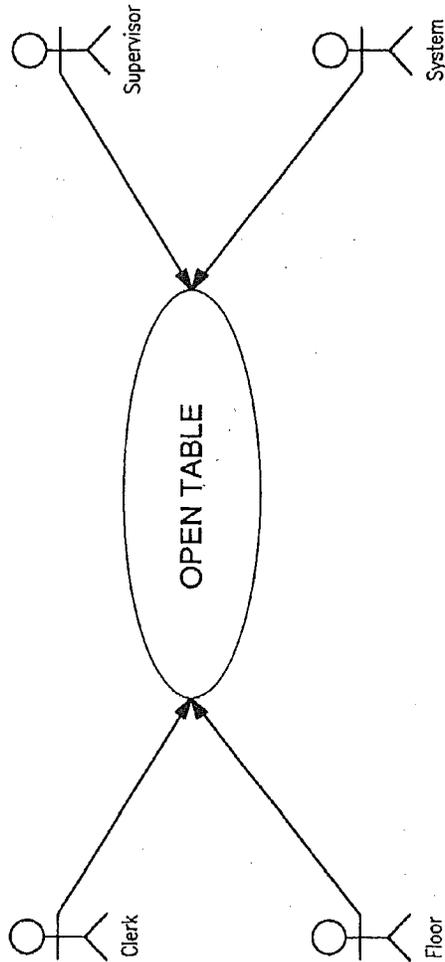
*TableTron*  
Game Manager Process



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

**FIG. 24**

GAME MANAGER - OPEN TABLE



USE CASE

FIG. 25

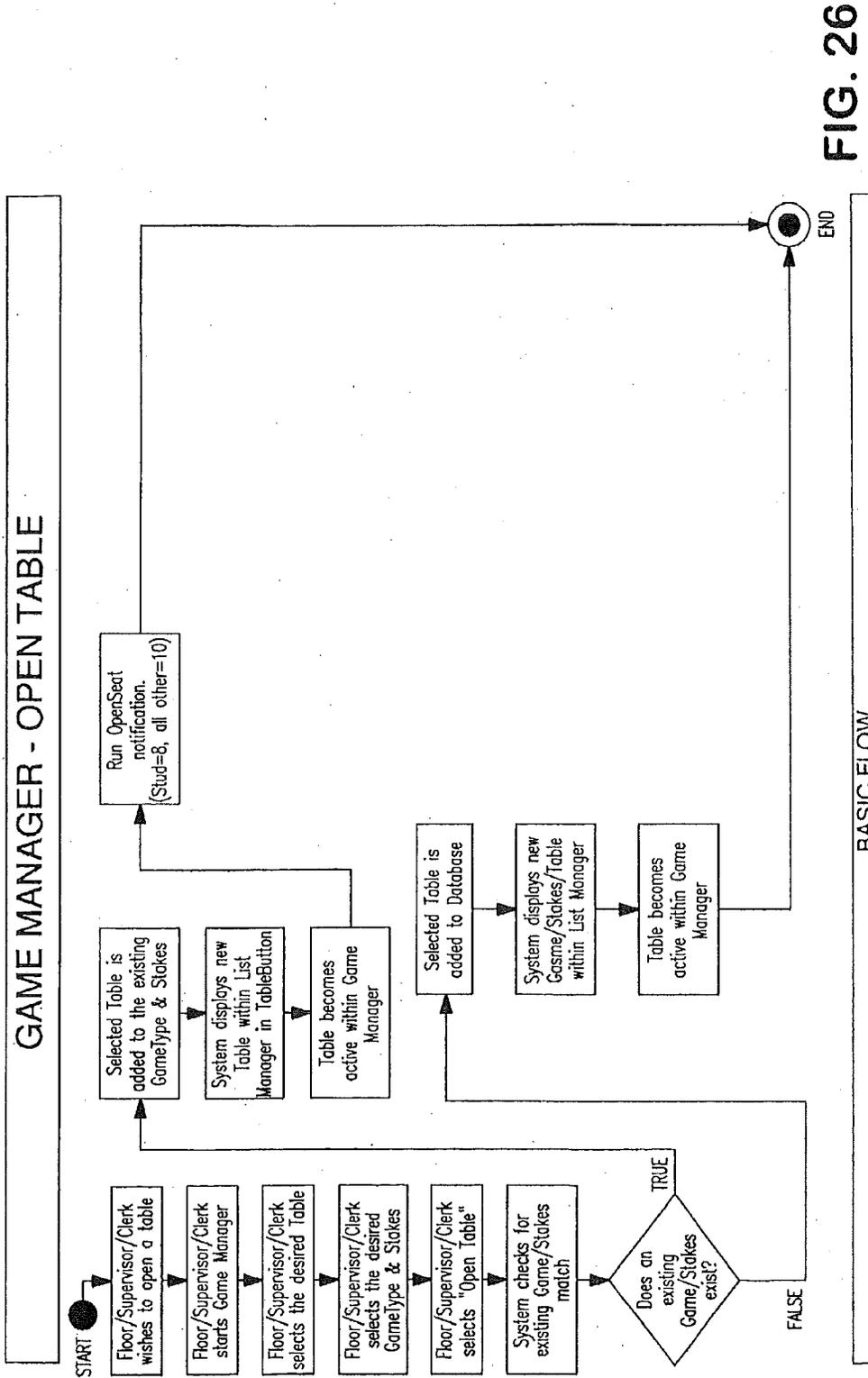


FIG. 26

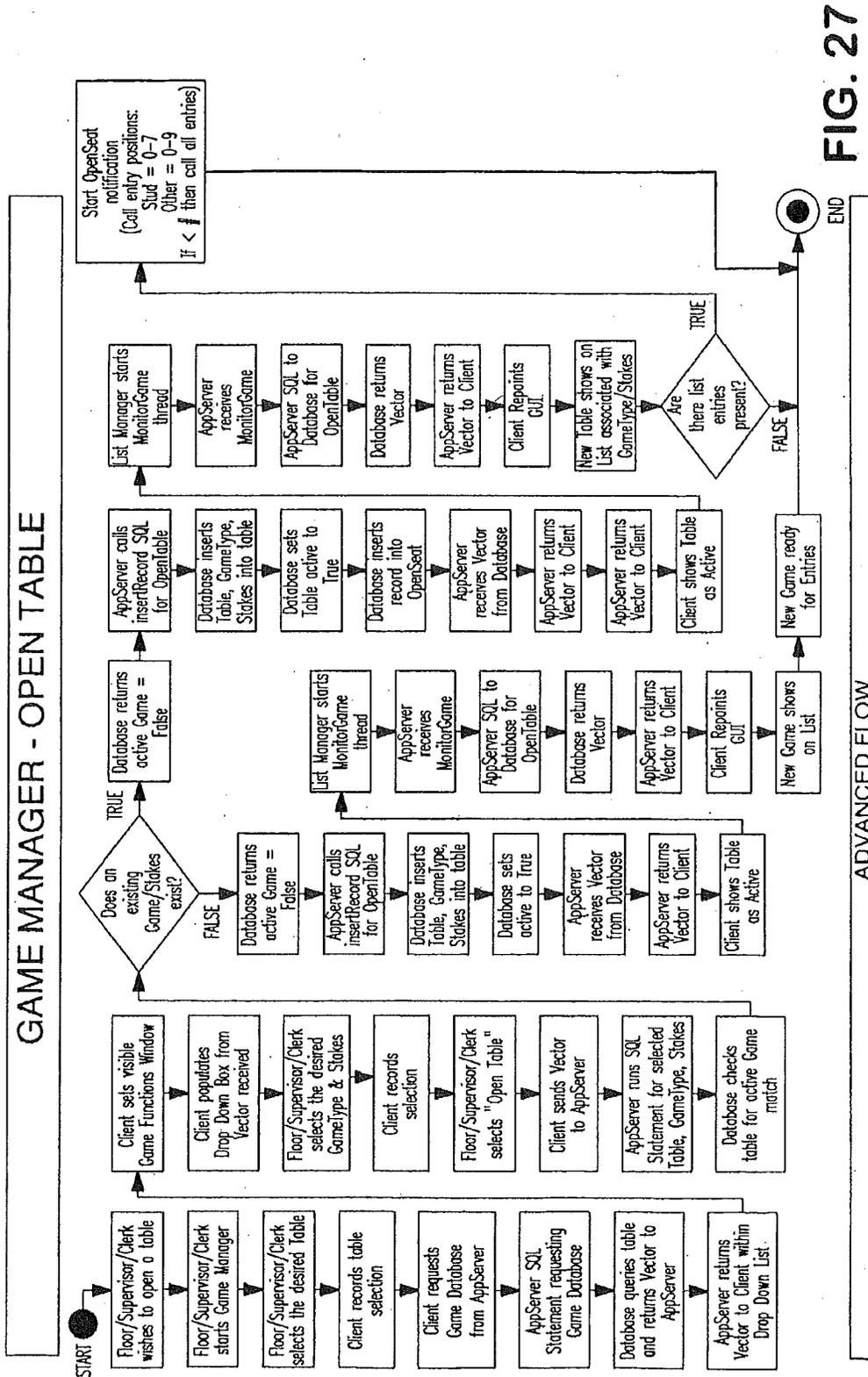


FIG. 27

ADVANCED FLOW

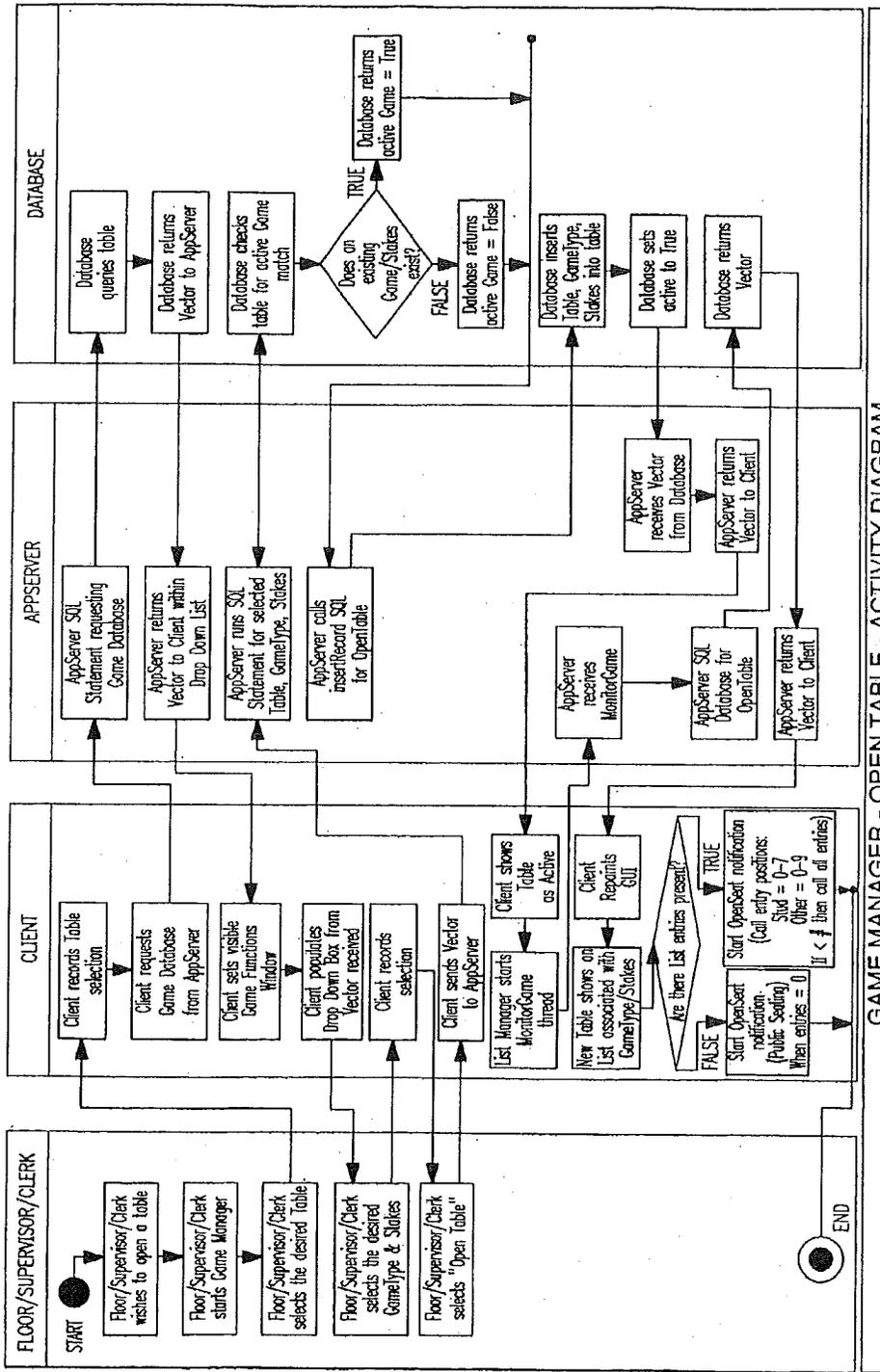


FIG. 28

GAME MANAGER - OPEN TABLE - ACTIVITY DIAGRAM

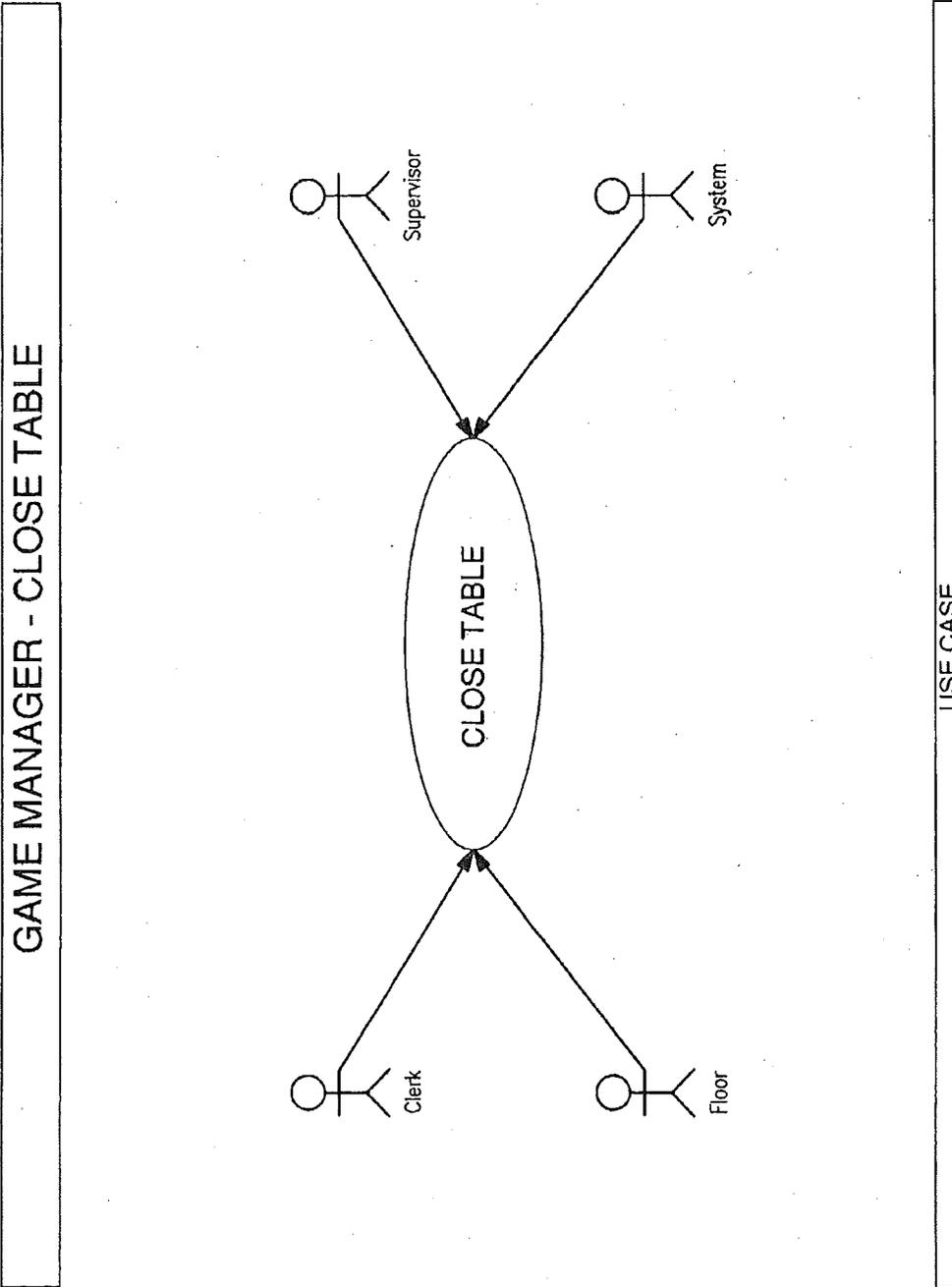


FIG. 29

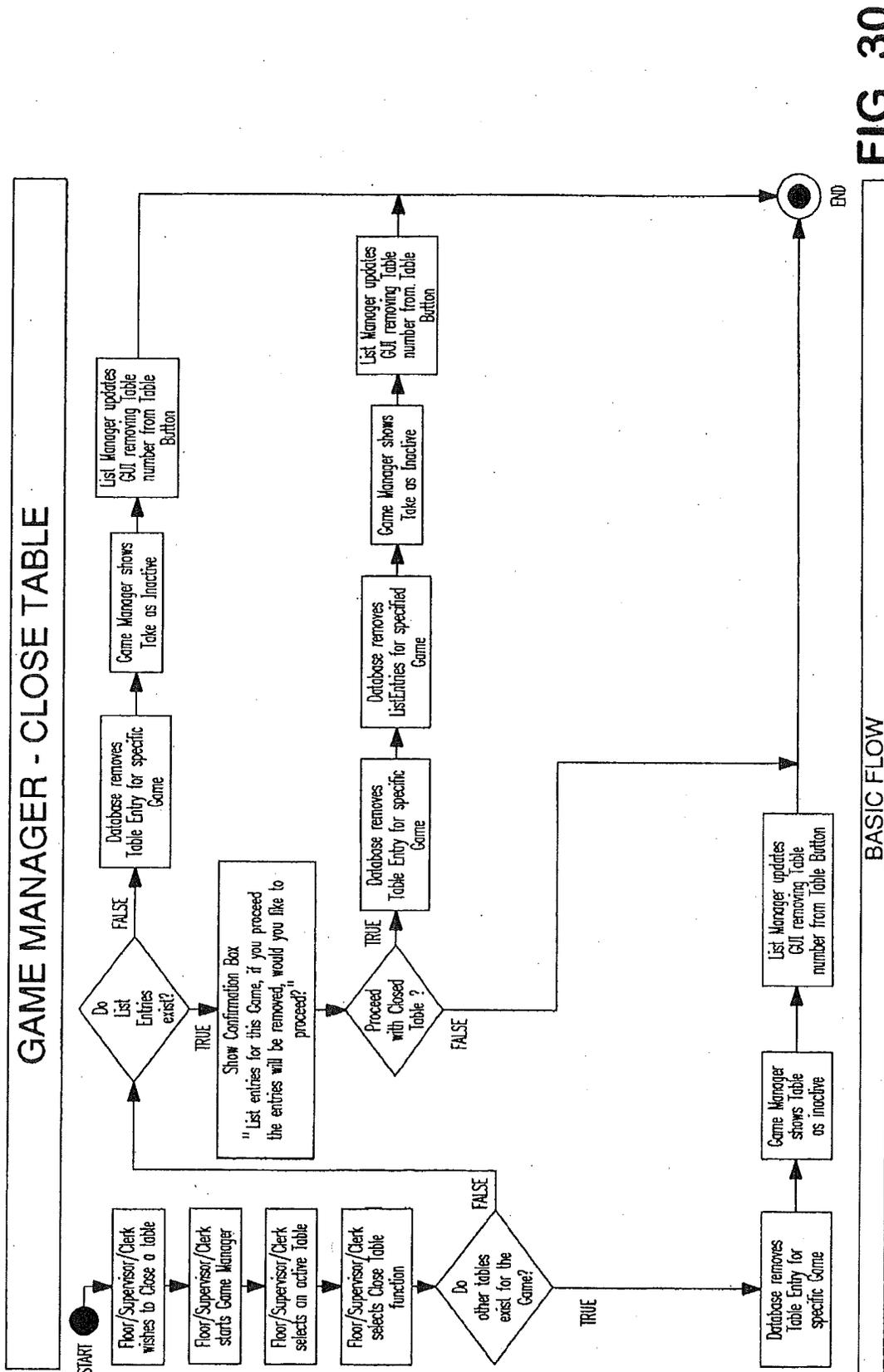


FIG. 30

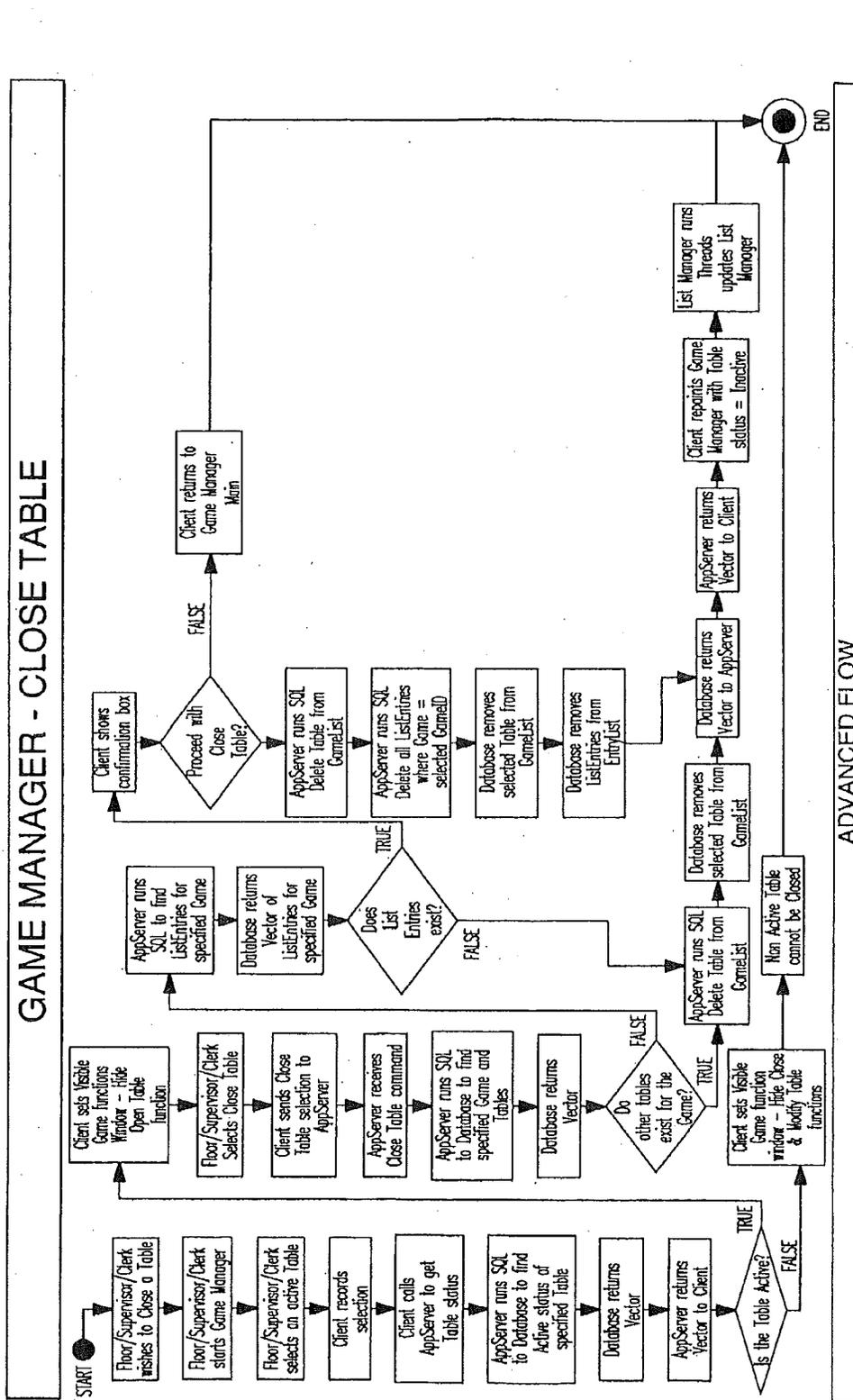


FIG. 31

ADVANCED FLOW

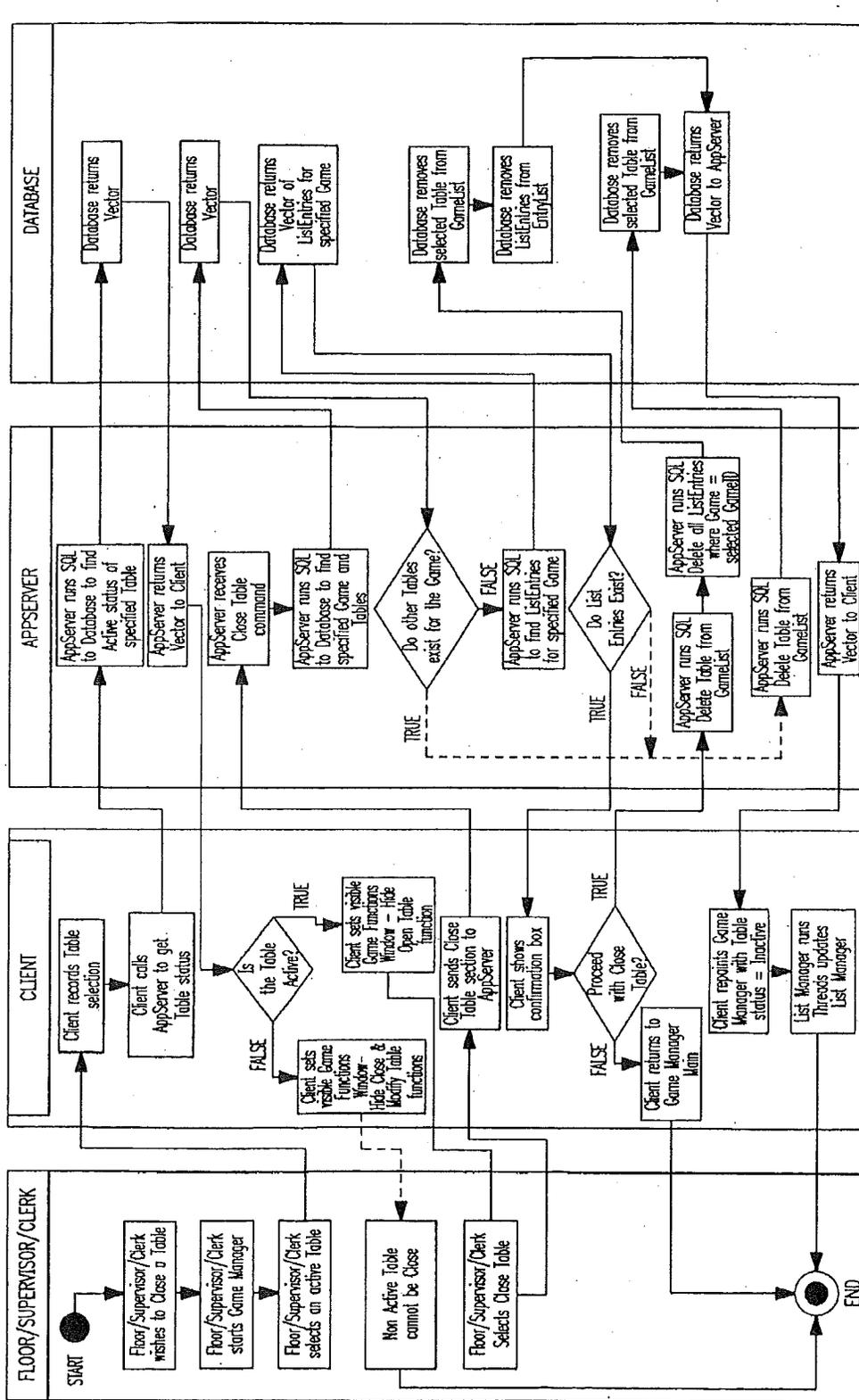


FIG. 32

August 7, 2002      Poker Room \* QueueOS \* Poker Room      5:04:09 PM EDT

**LIST MANAGER**

Exit < Back 3 of 5 Next >

7 Card Stud	7 Card Stud	Texas Holdem	7 Card Stud	Texas Holdem	7 Card Stud
\$1 - \$3	\$1 - \$5	\$3 - \$6	\$5 - \$10	\$5 - \$10	\$10 - \$20
8,44,	1,0,18,	2,3,40,26,			7,4,22,23,
BVC	AA    OKL	AA    JNJ	AA	BVC	LKM
YTG	BVC    FCV	BVC    OKL	BVC	LK	PAM
DSA	YTG	YTG	NBV	BTR	PRE
PRE	AS	LKM	PRE	LKM	LOP
SEA	DSR	TFC	HJK	IHH	ED
BOB	GCF	GBV	HBV	HJK	BP
AAS	BOB	HJK	AAS	BOB	AAS
GFD	AAS	BP	OKL	AAS	OKL
OKL	FRANK	AAS	LKM	JNJ	
AA	JNJ	GFD			

M \$30 and \$20    Sheryl Crow    Sunday    September 1st    7:00 PM    \$35 and \$20    Marc An

Powered by QueueOS, LLC \*\* Patent Pending Copyright 2002

**FIG. 33**

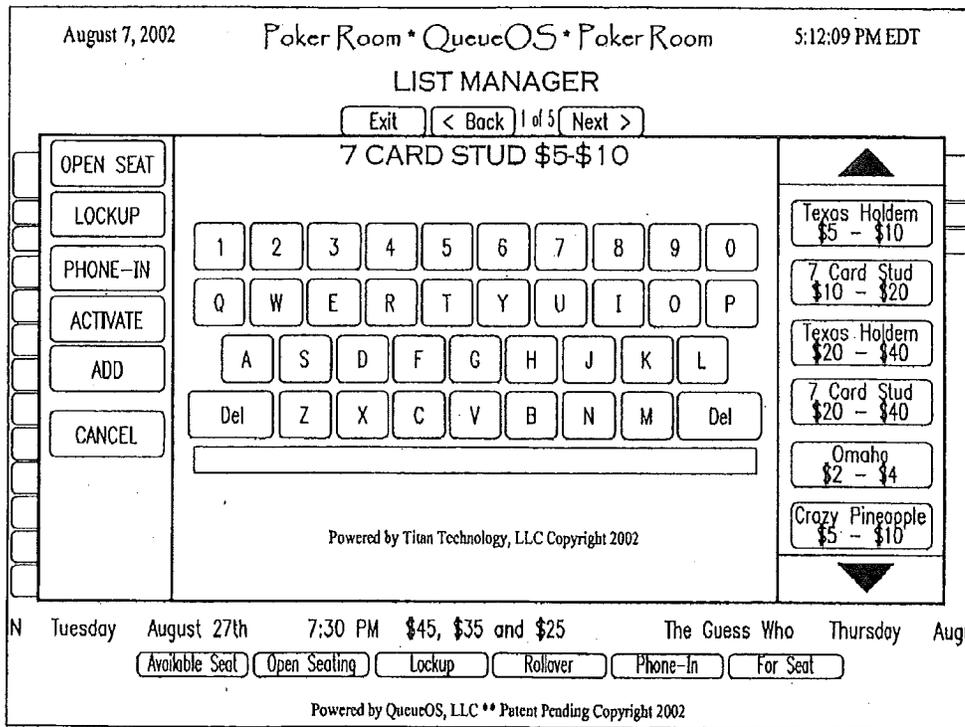
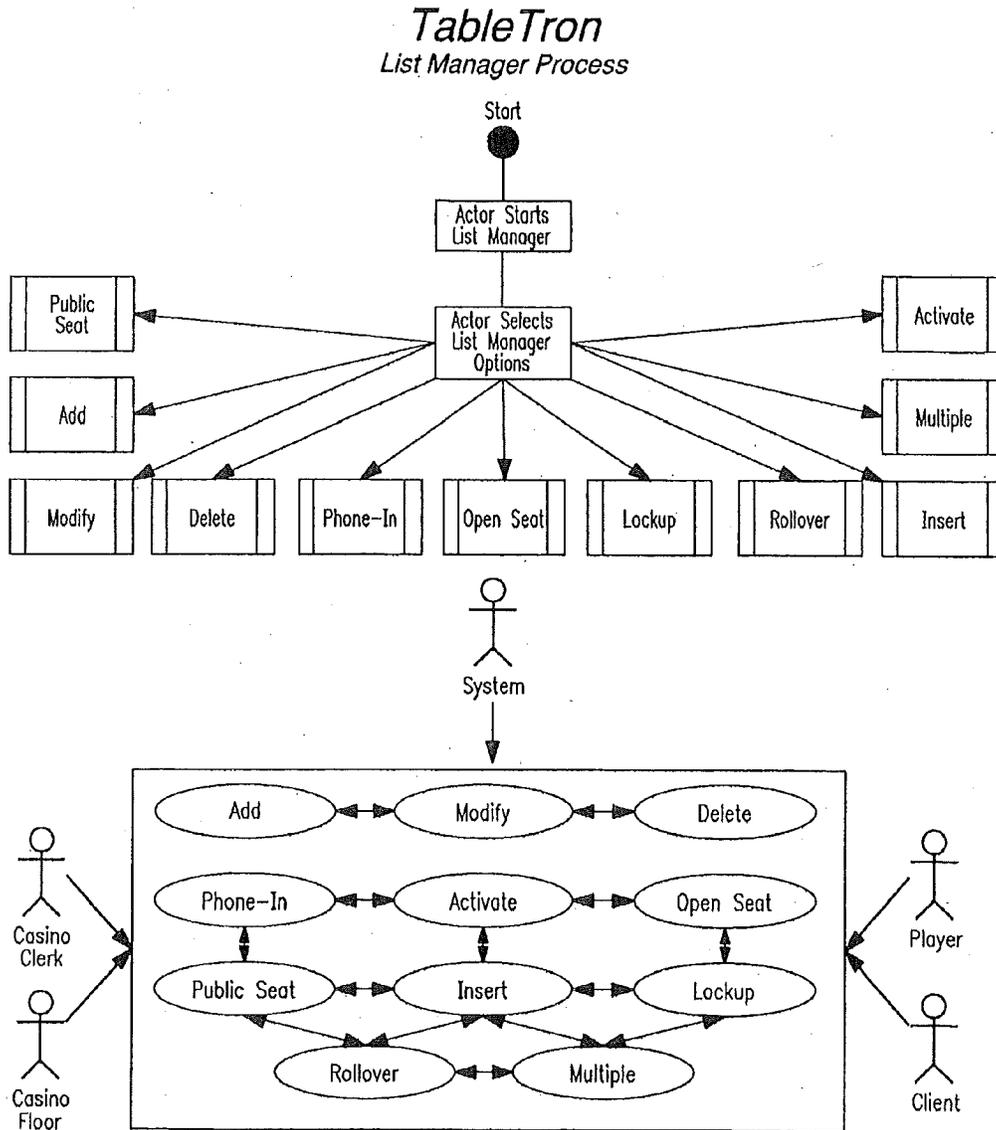


FIG. 34



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**

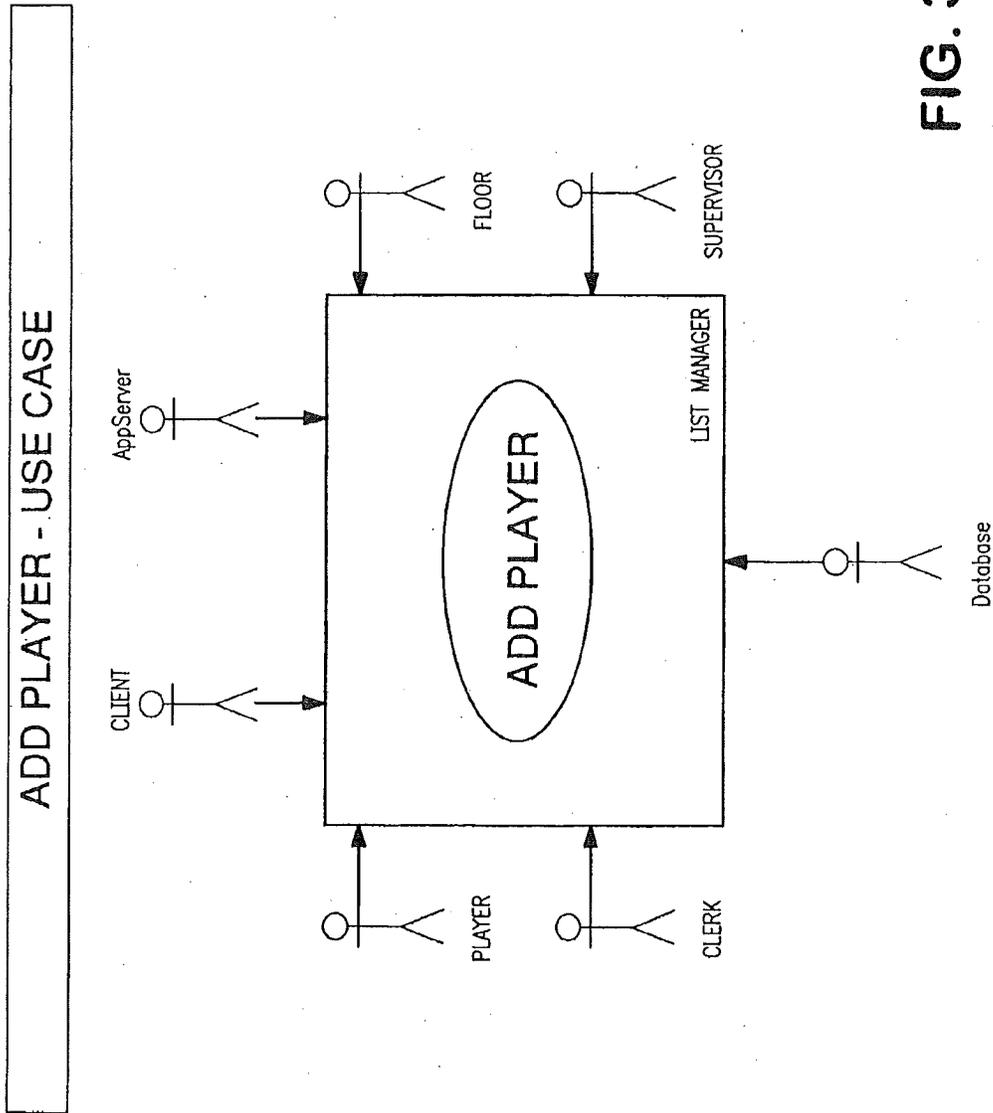


FIG. 36

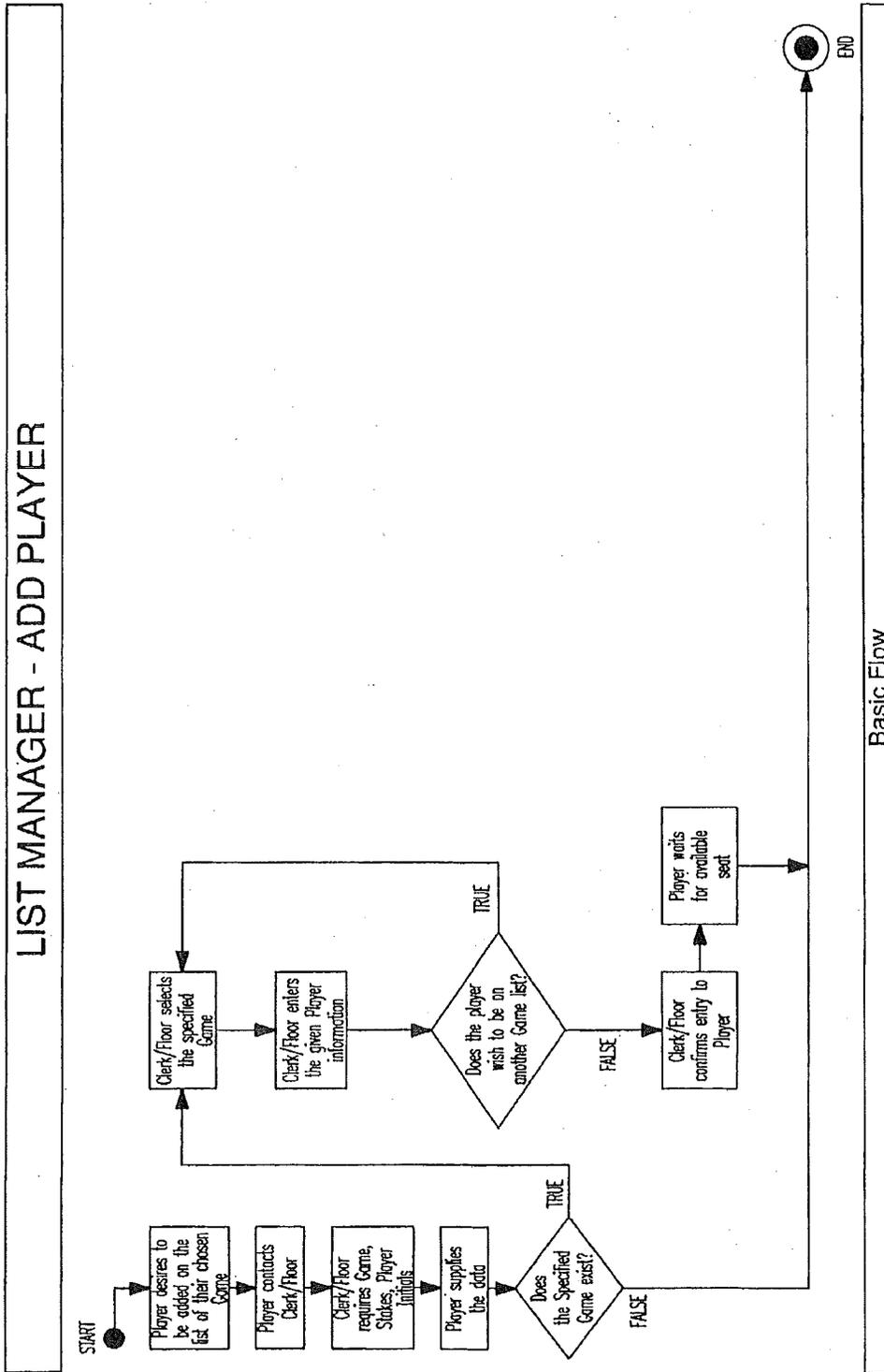


FIG. 37

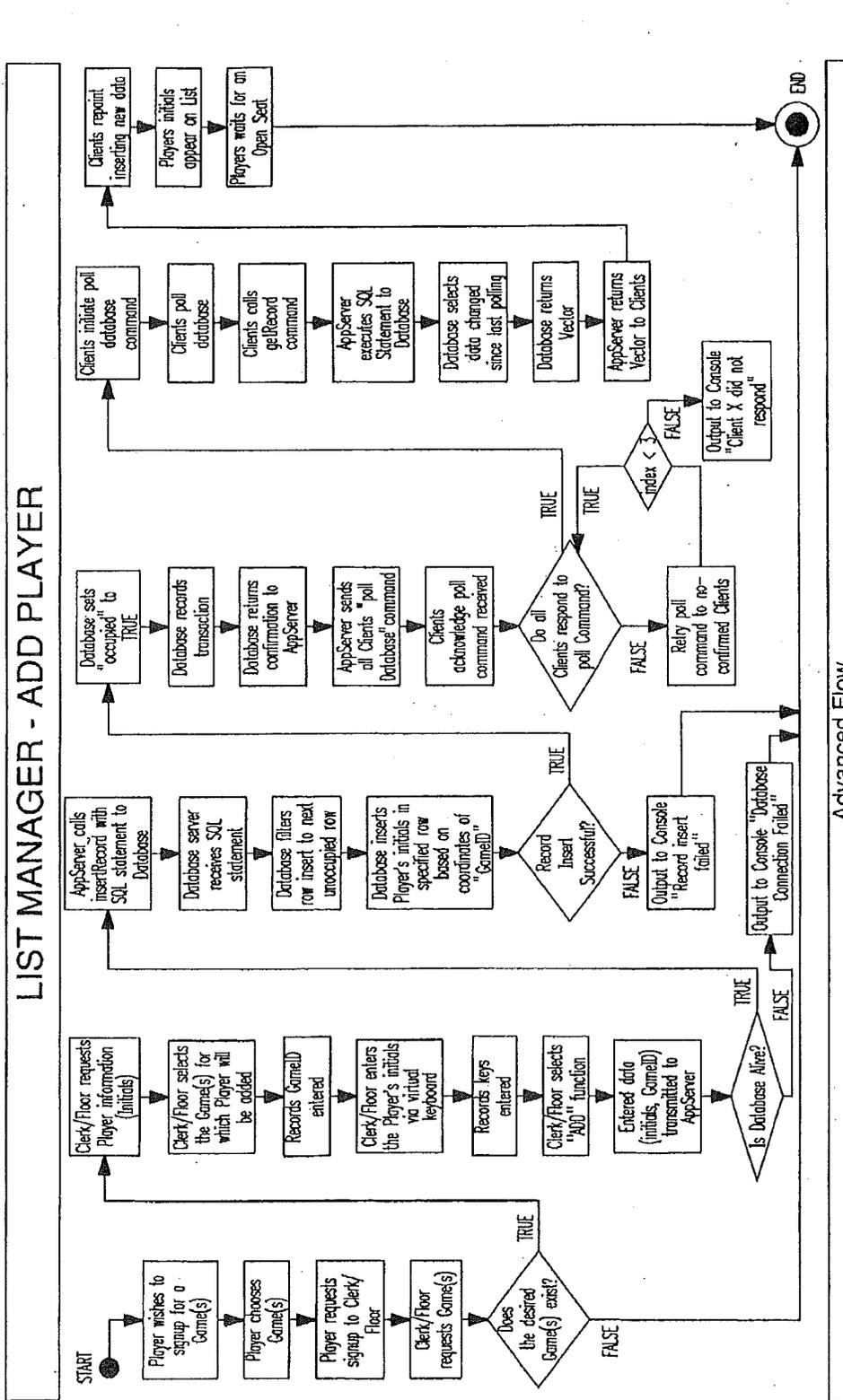


FIG. 38

Advanced Flow

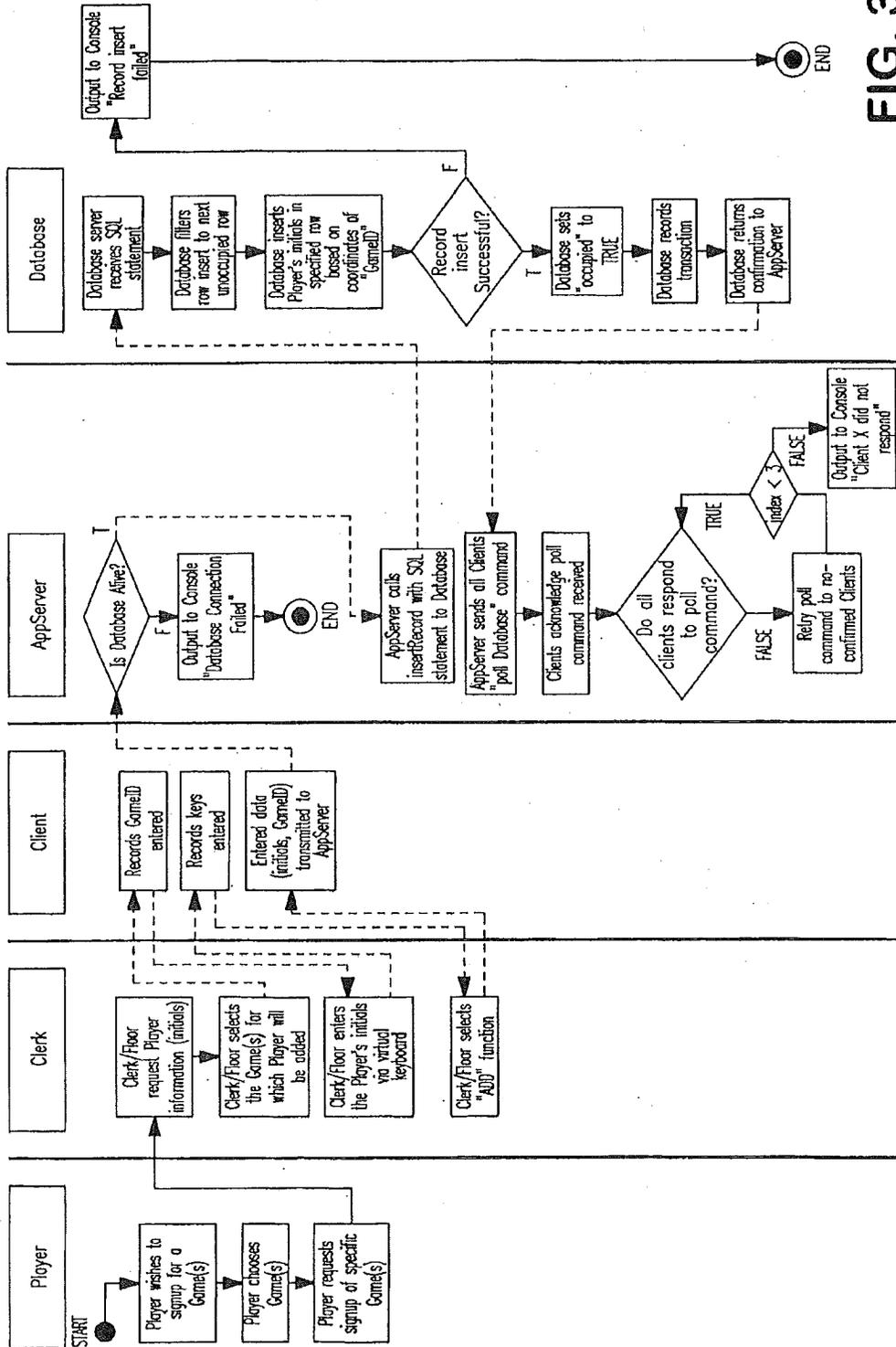


FIG. 39

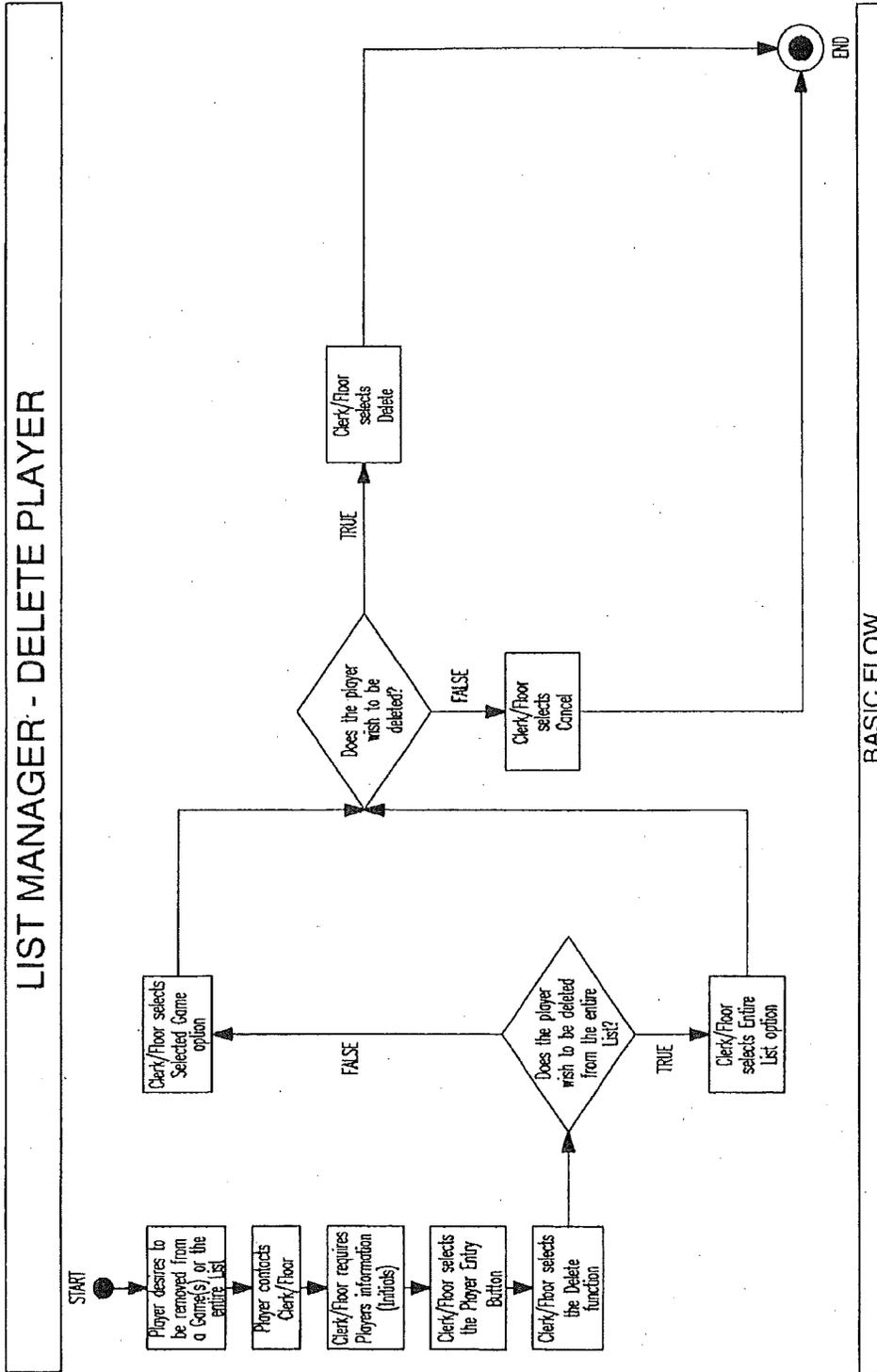
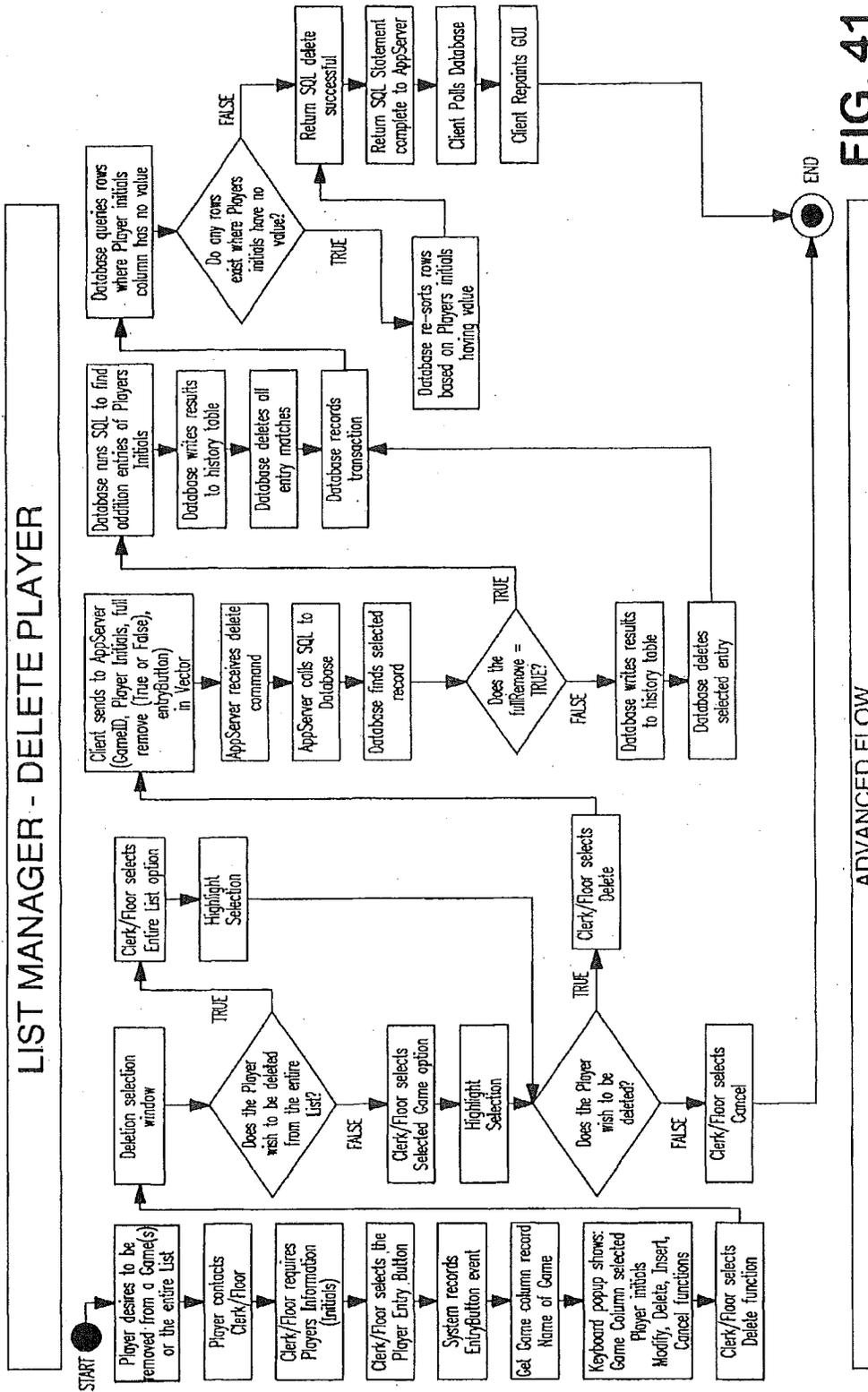


FIG. 40

BASIC FLOW



**FIG. 41**

ADVANCED FLOW

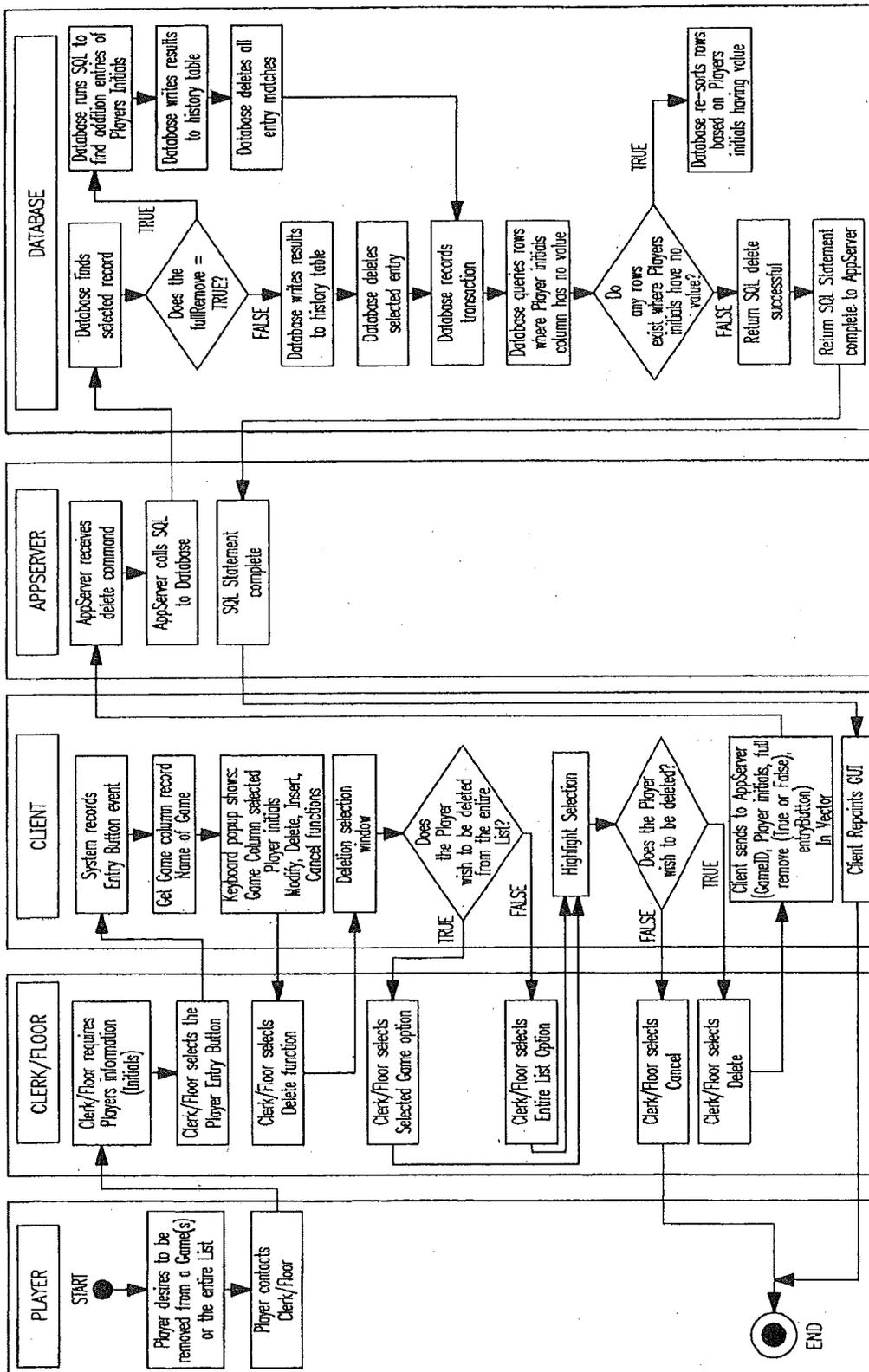


FIG. 42

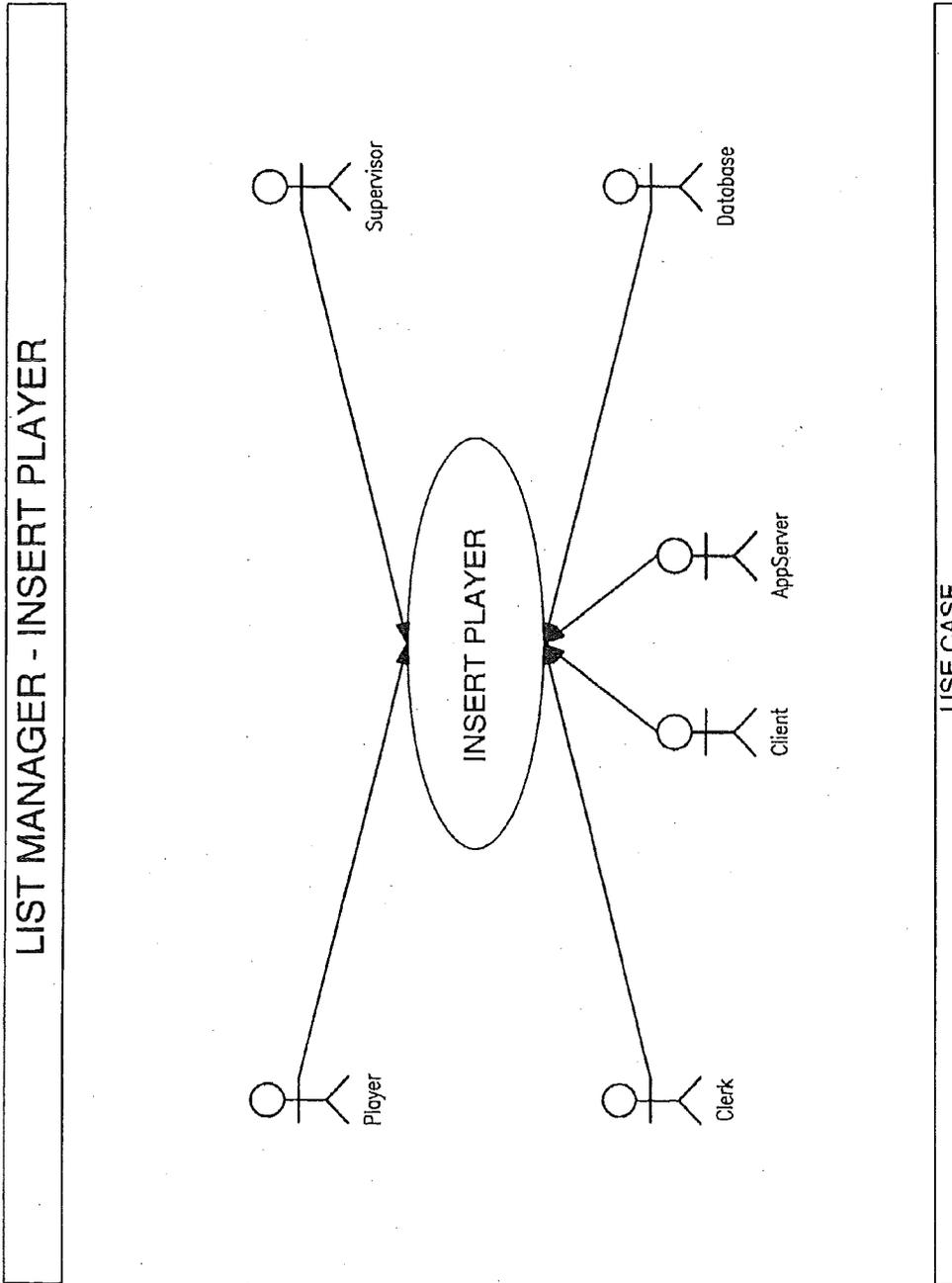


FIG. 43

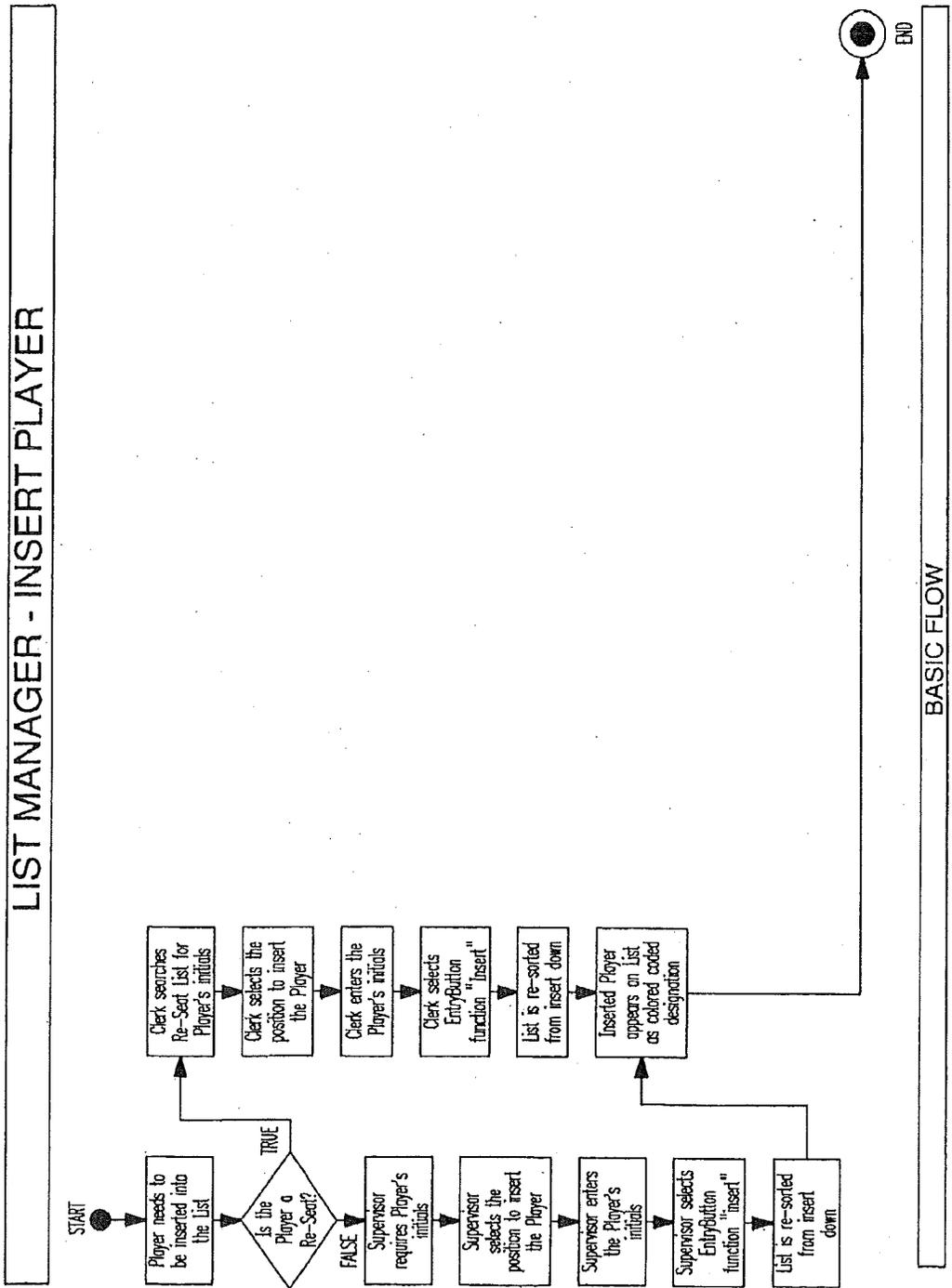
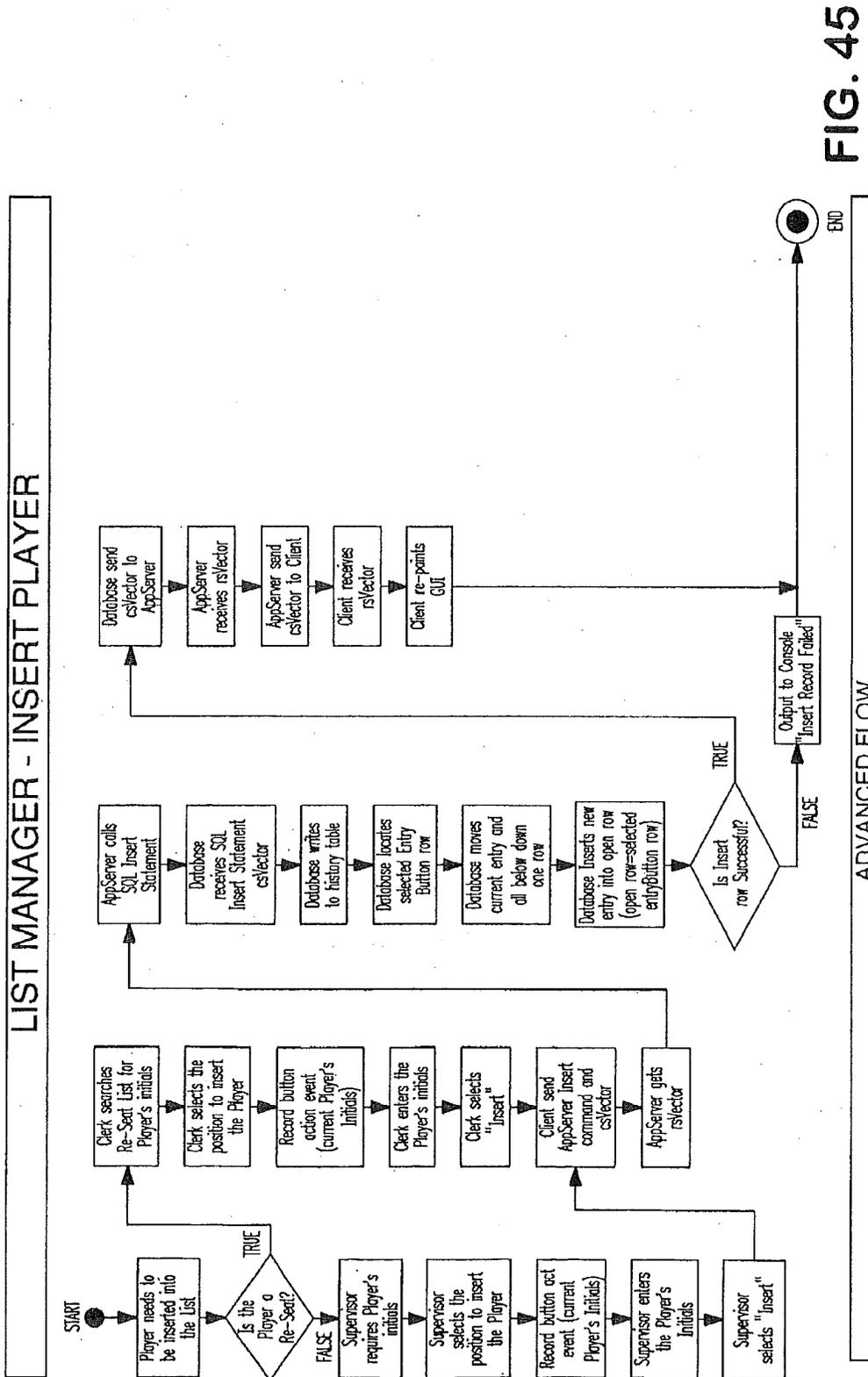


FIG. 44

Exhibit A, Pg. 64



**FIG. 45**

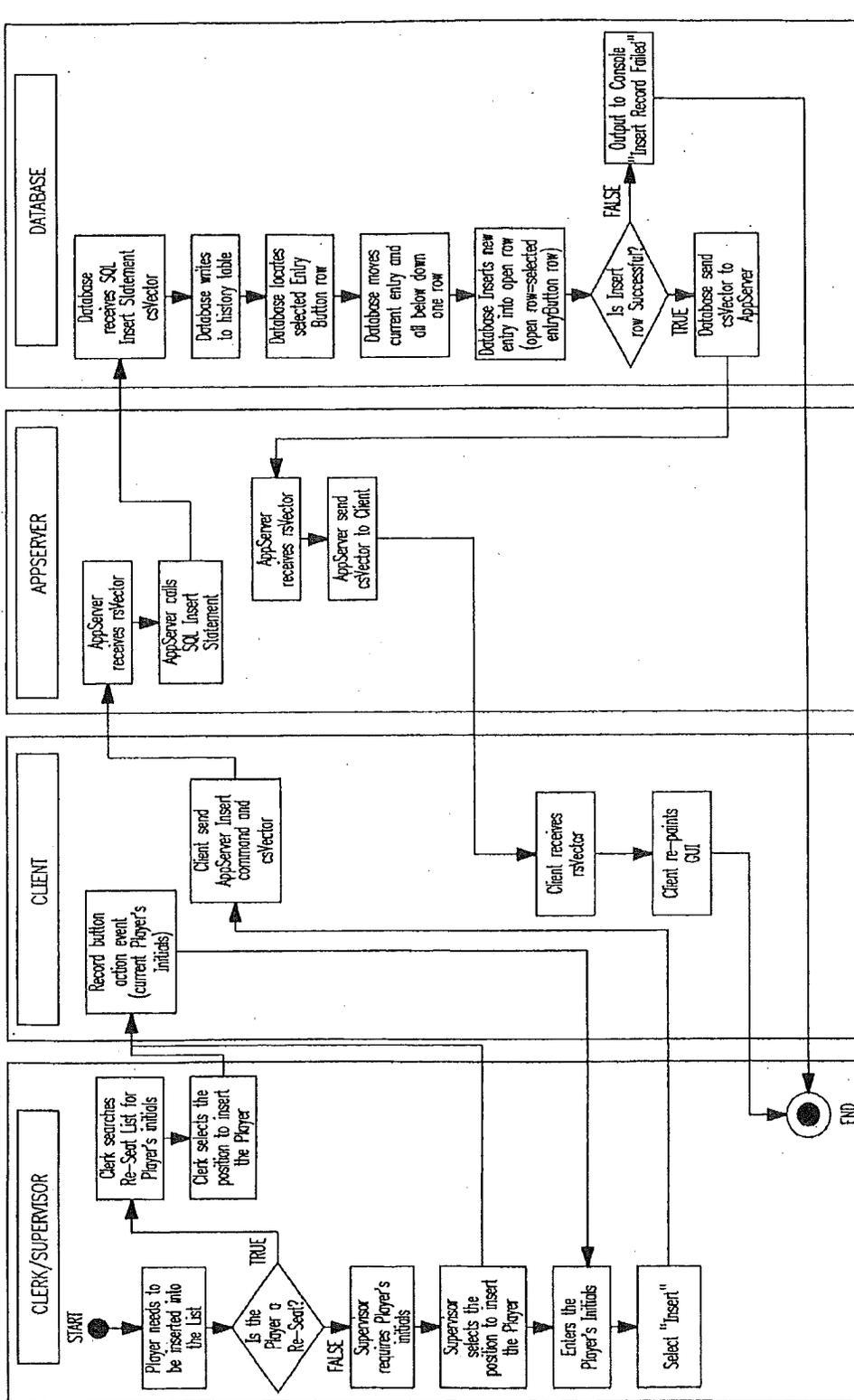


FIG. 46A

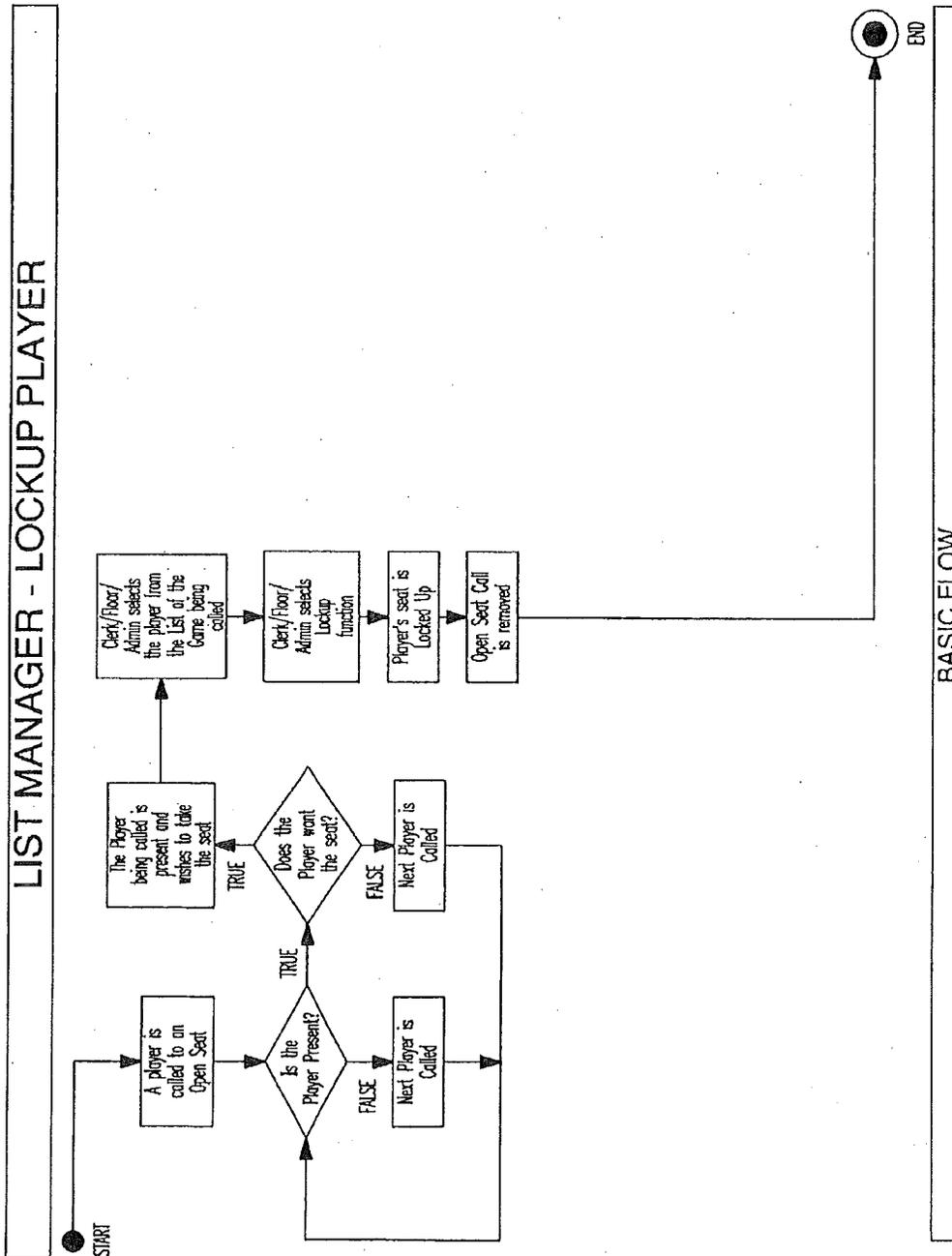


FIG. 46B

BASIC FLOW

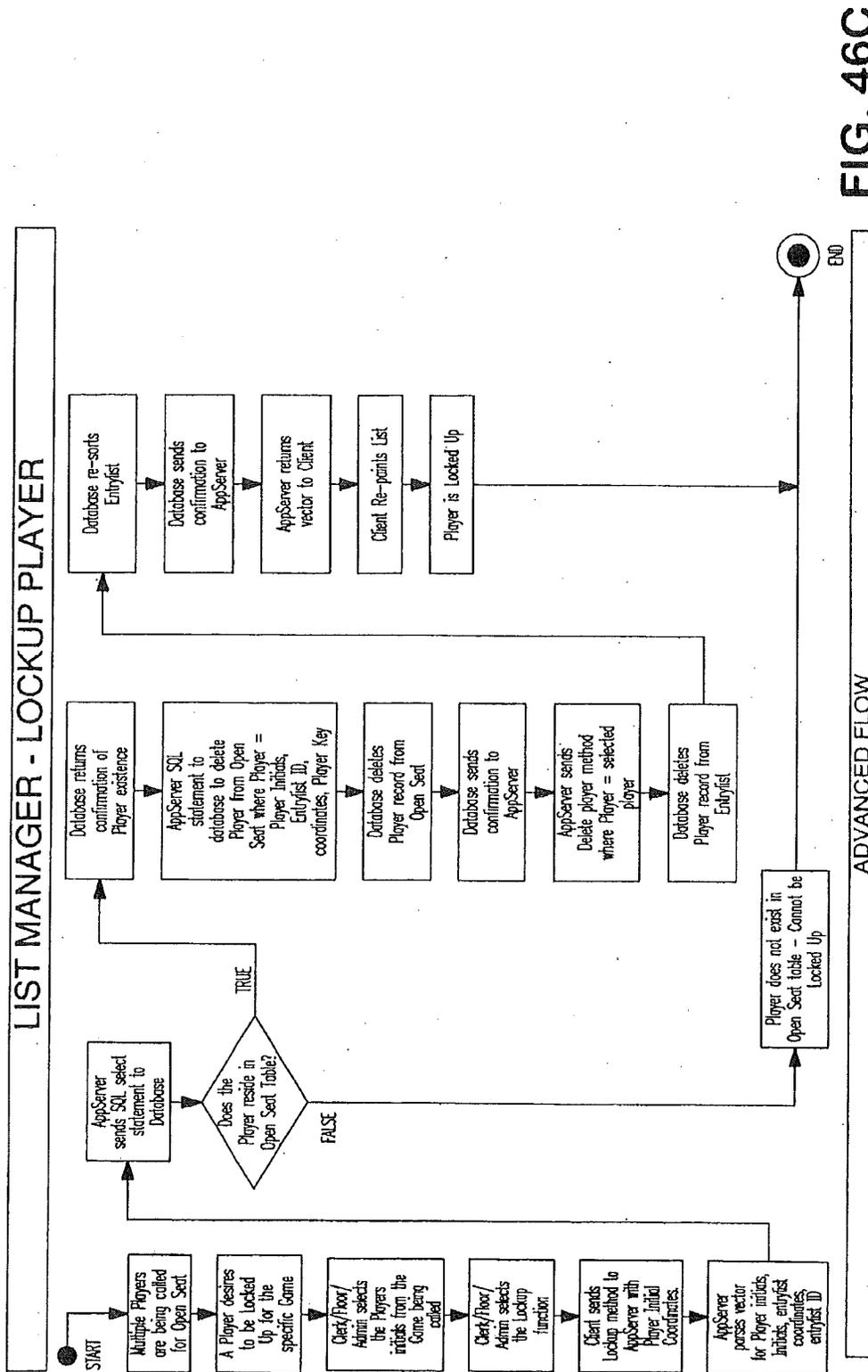
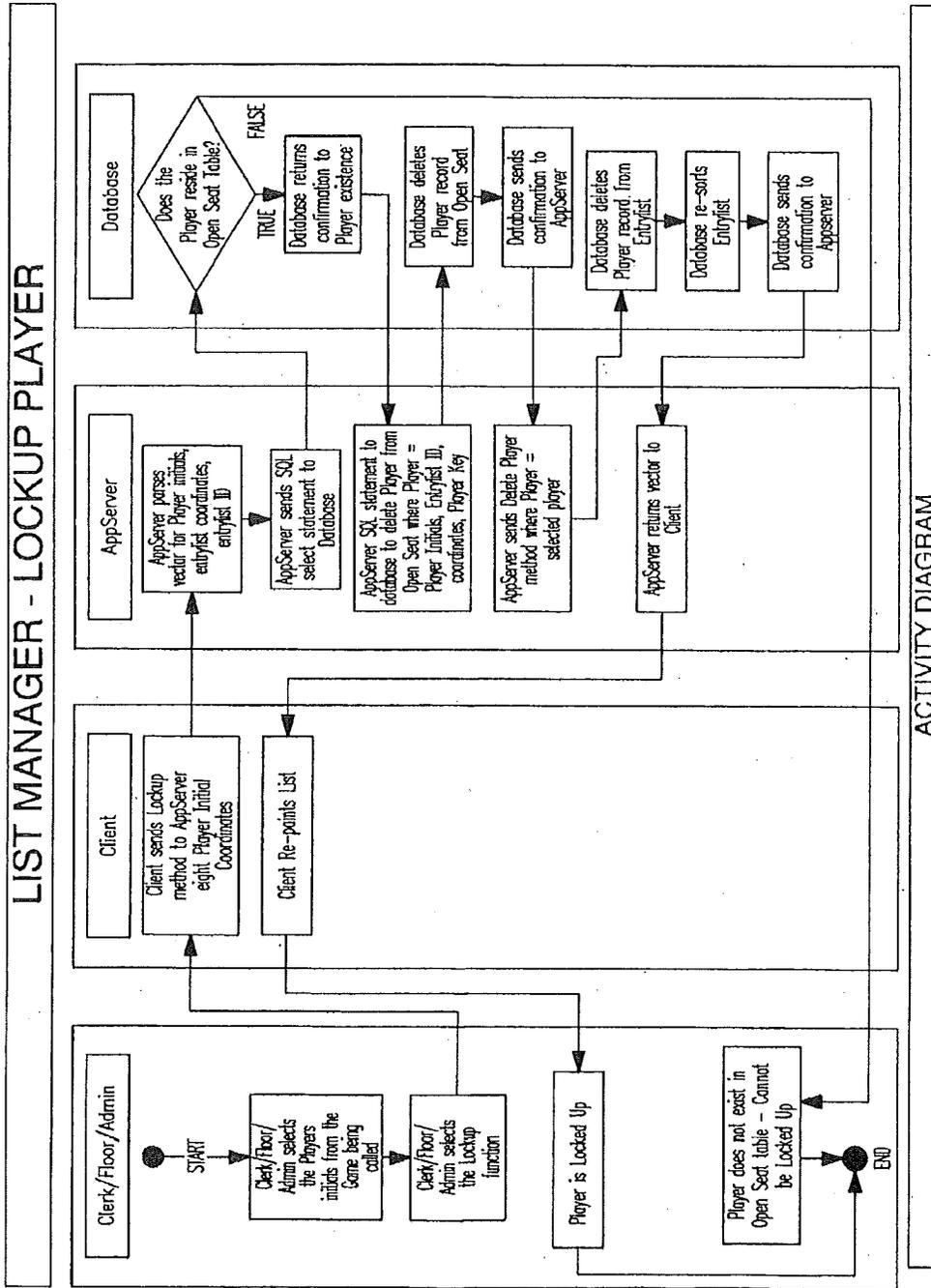


FIG. 46C

ADVANCED FLOW



**FIG. 46D**

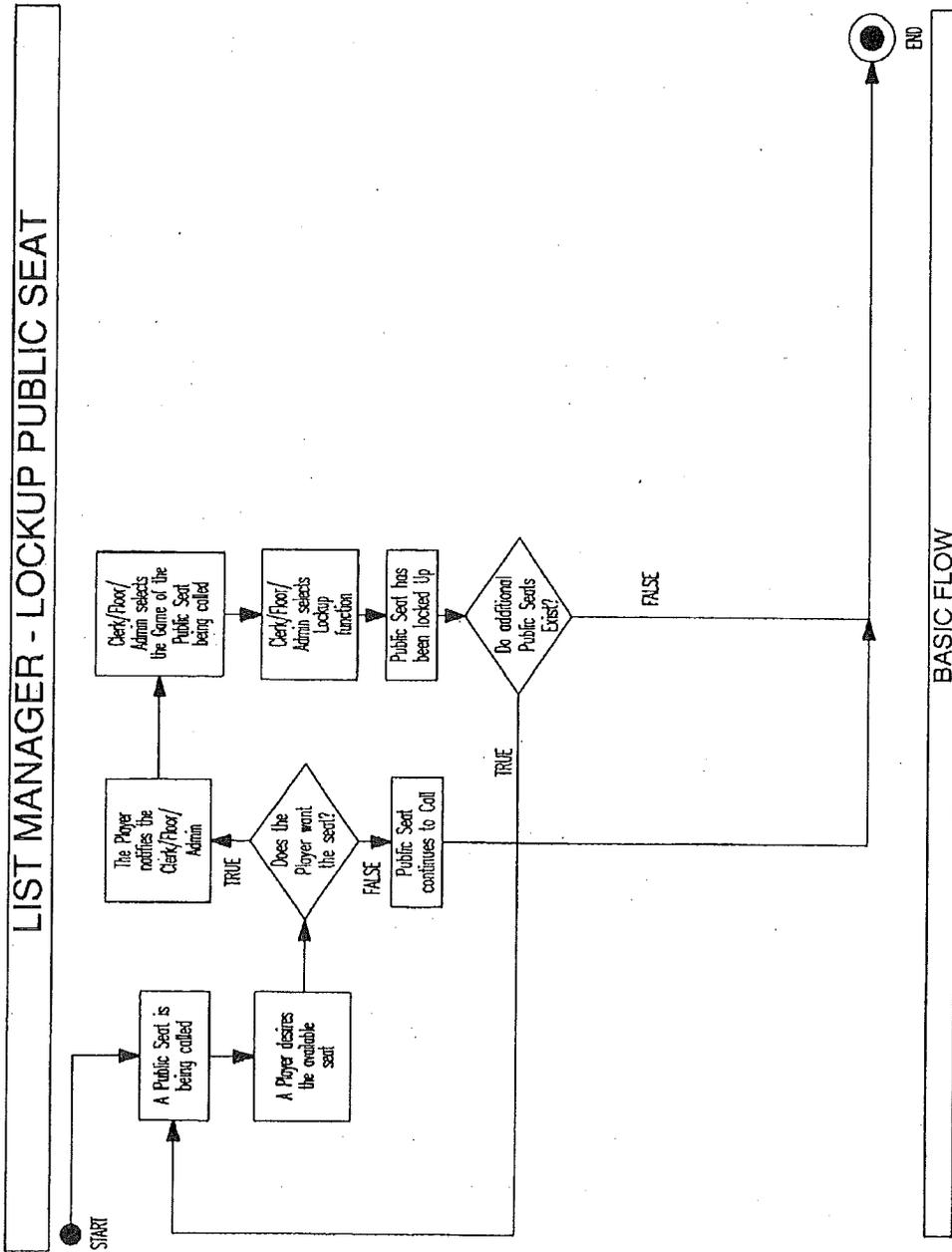
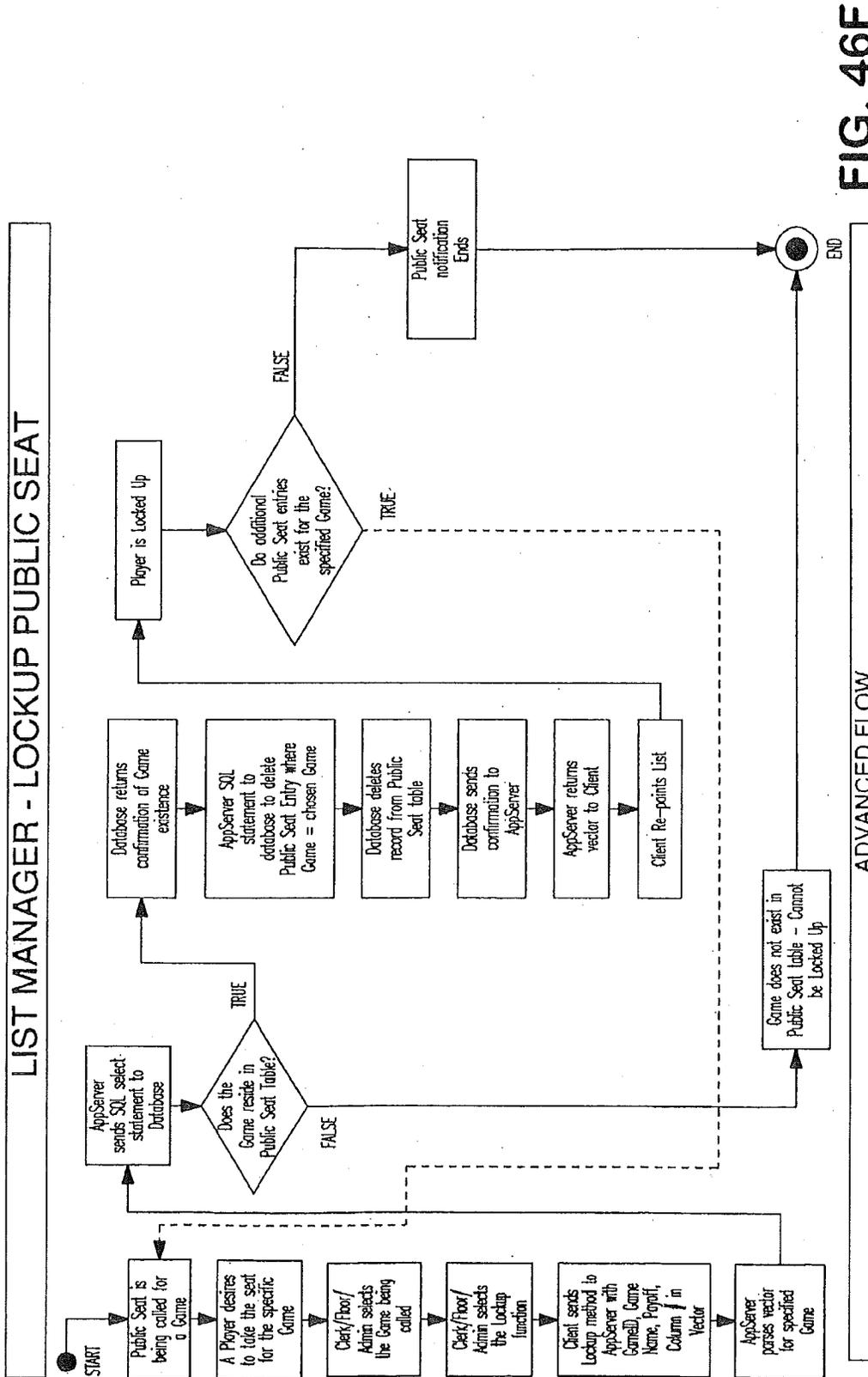


FIG. 46E



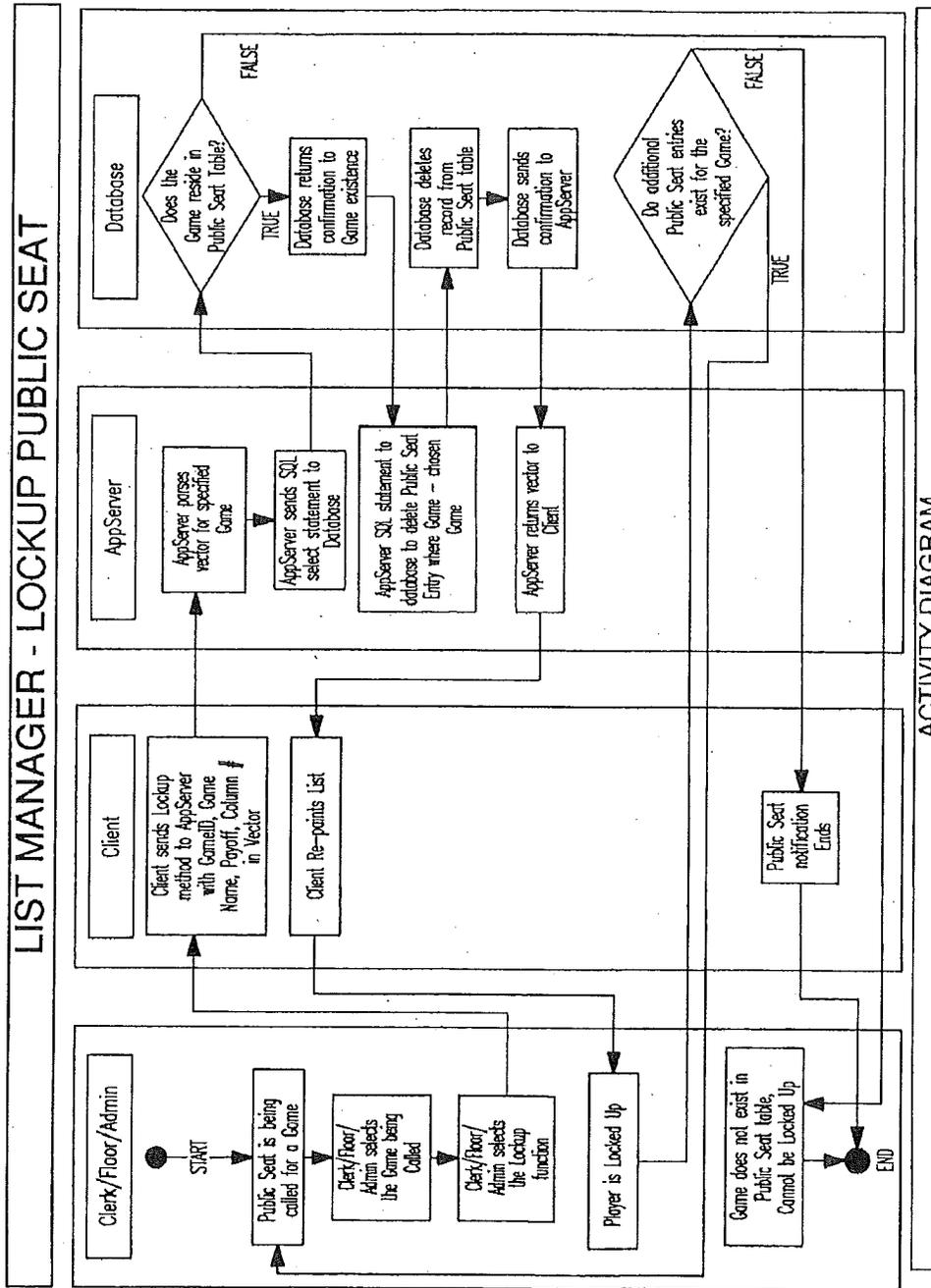


FIG. 46G

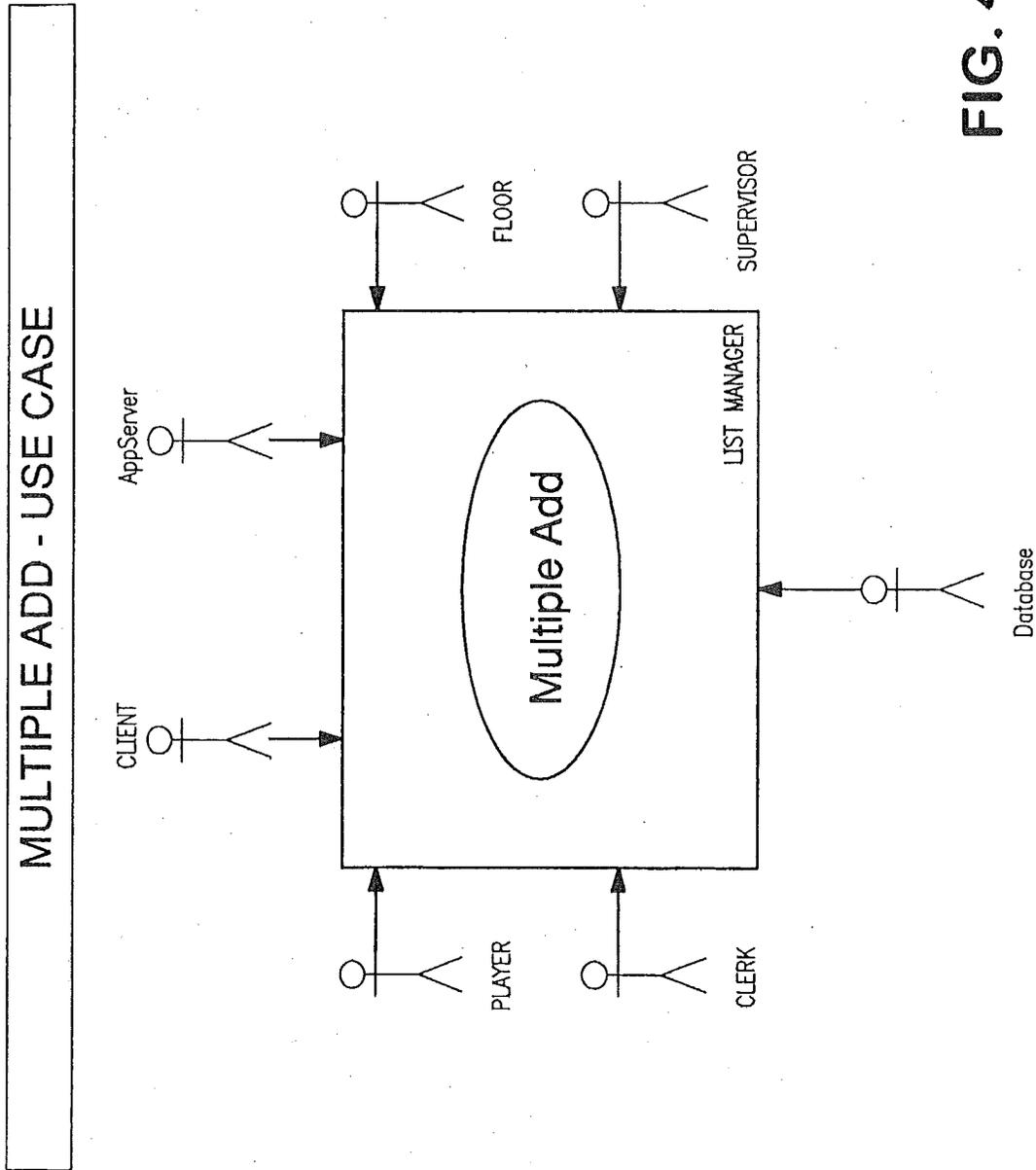
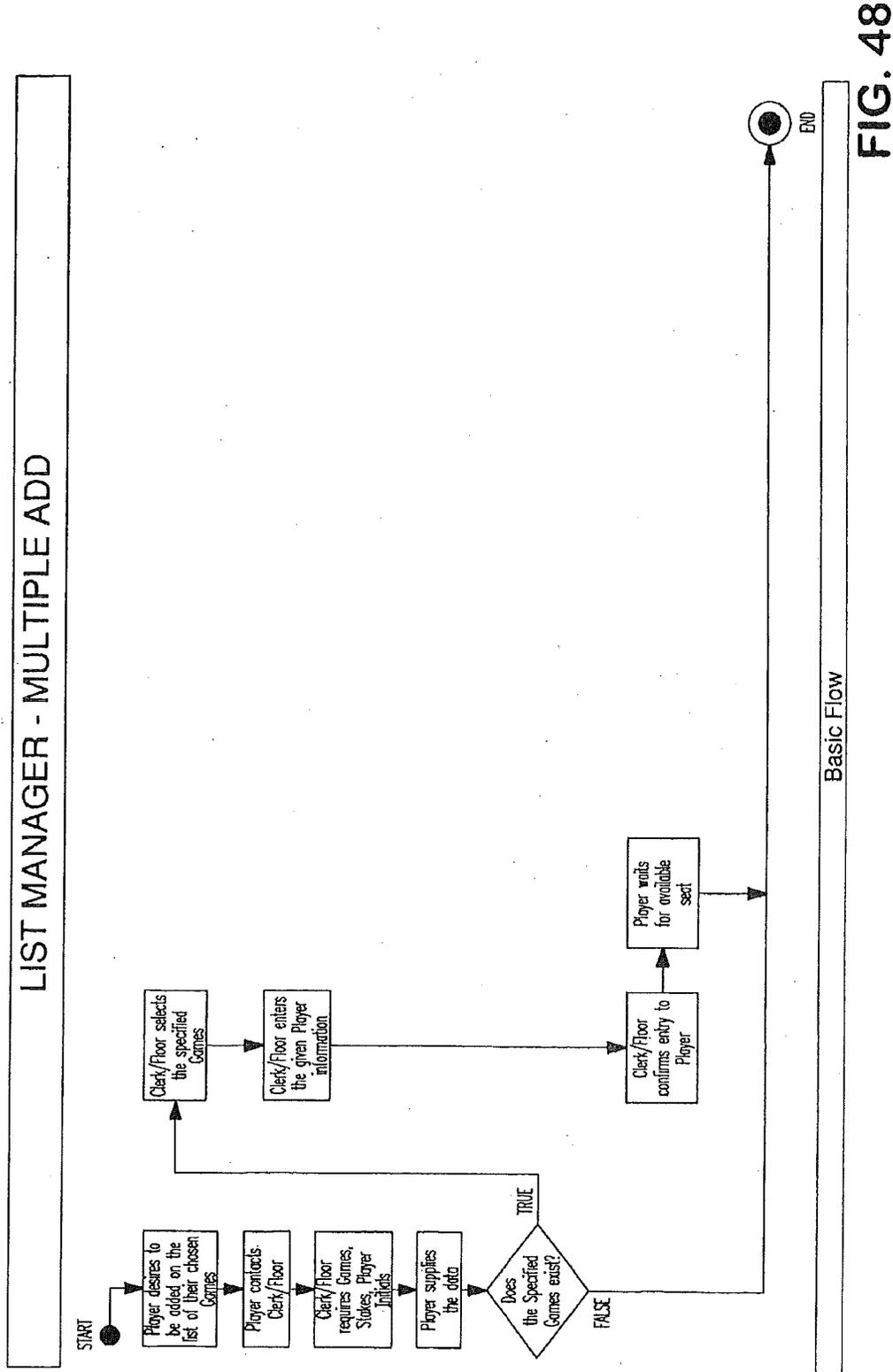


FIG. 47



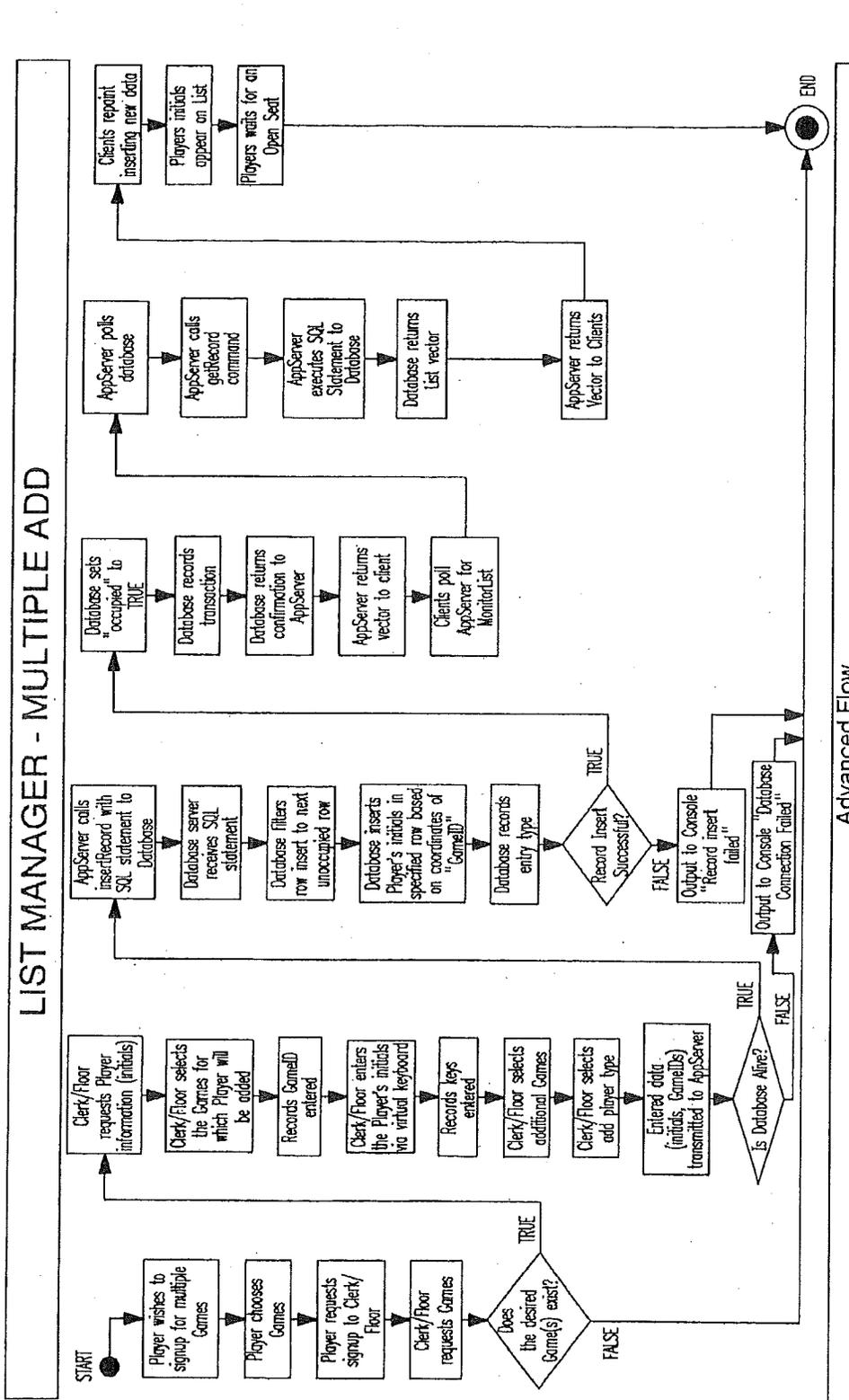


FIG. 49

Advanced Flow

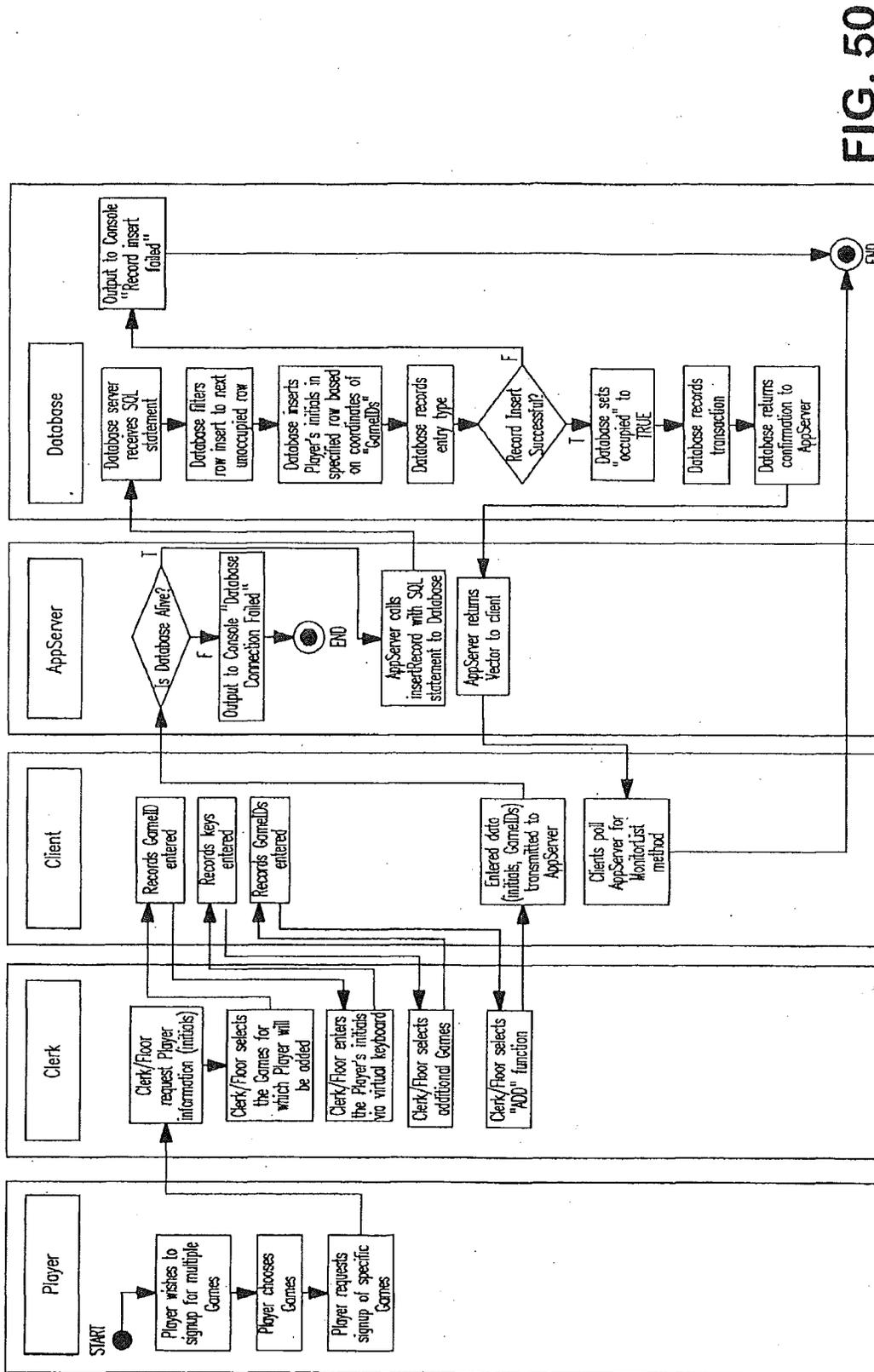


FIG. 50

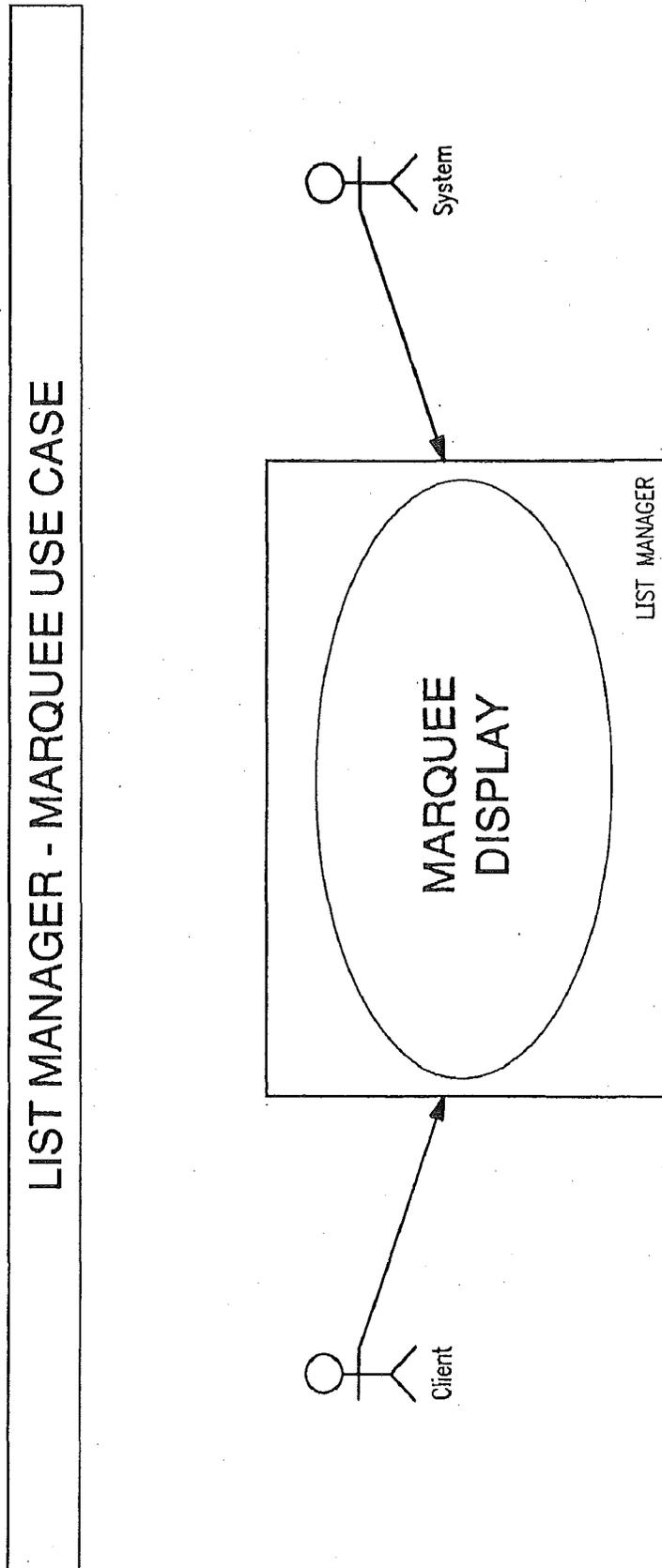
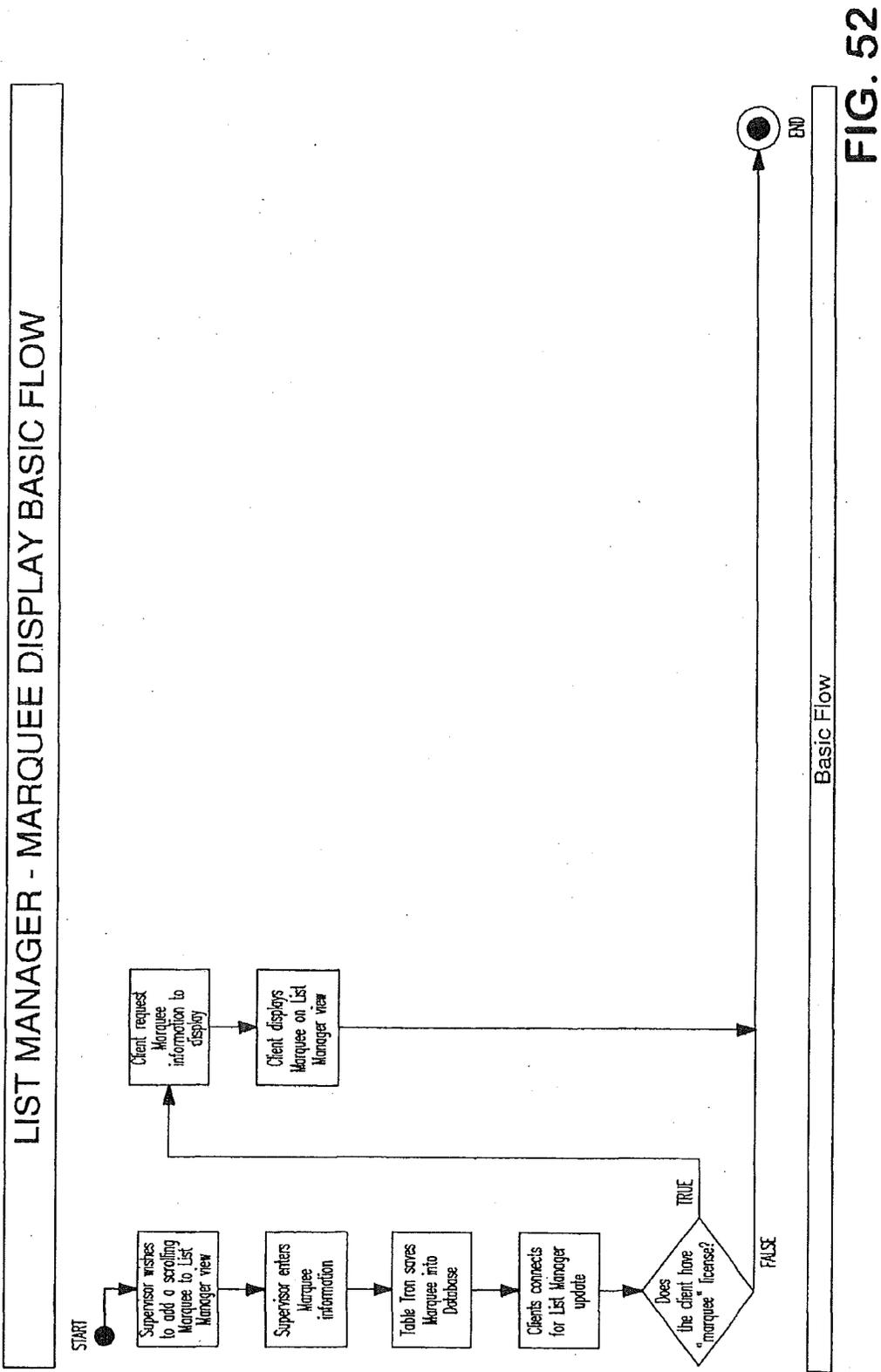


FIG. 51



Basic Flow

FIG. 52

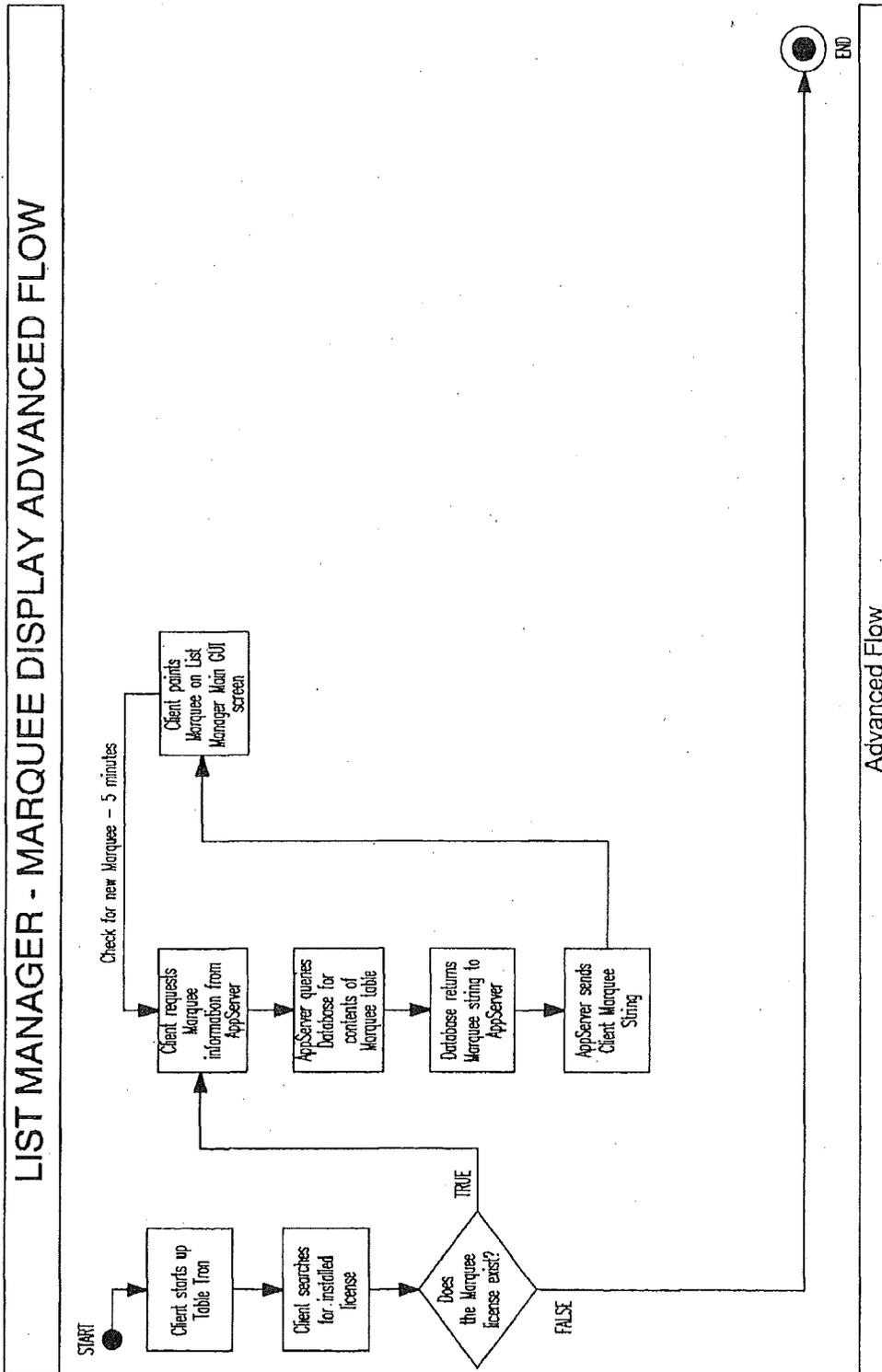


FIG. 53

Advanced Flow

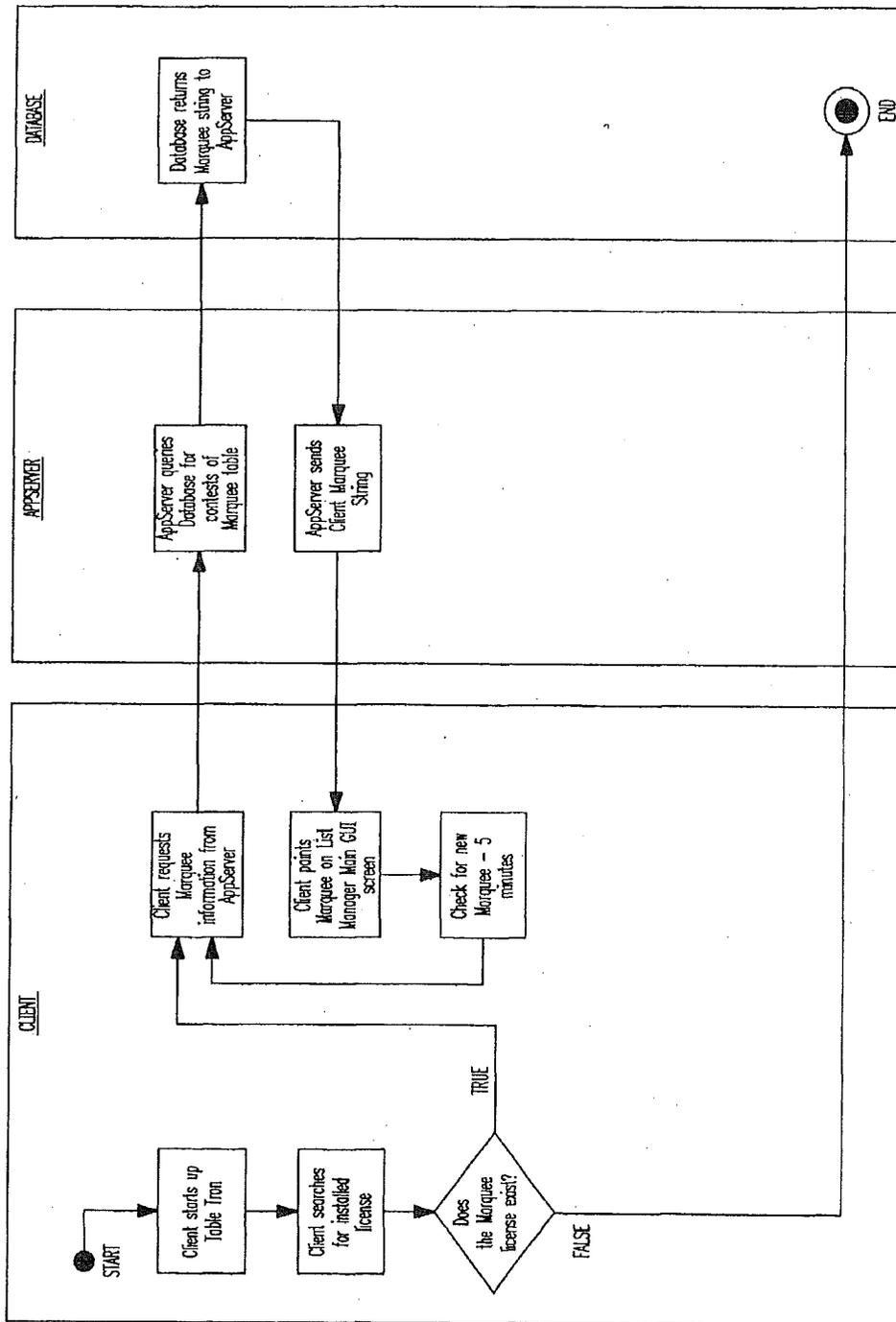


FIG. 54

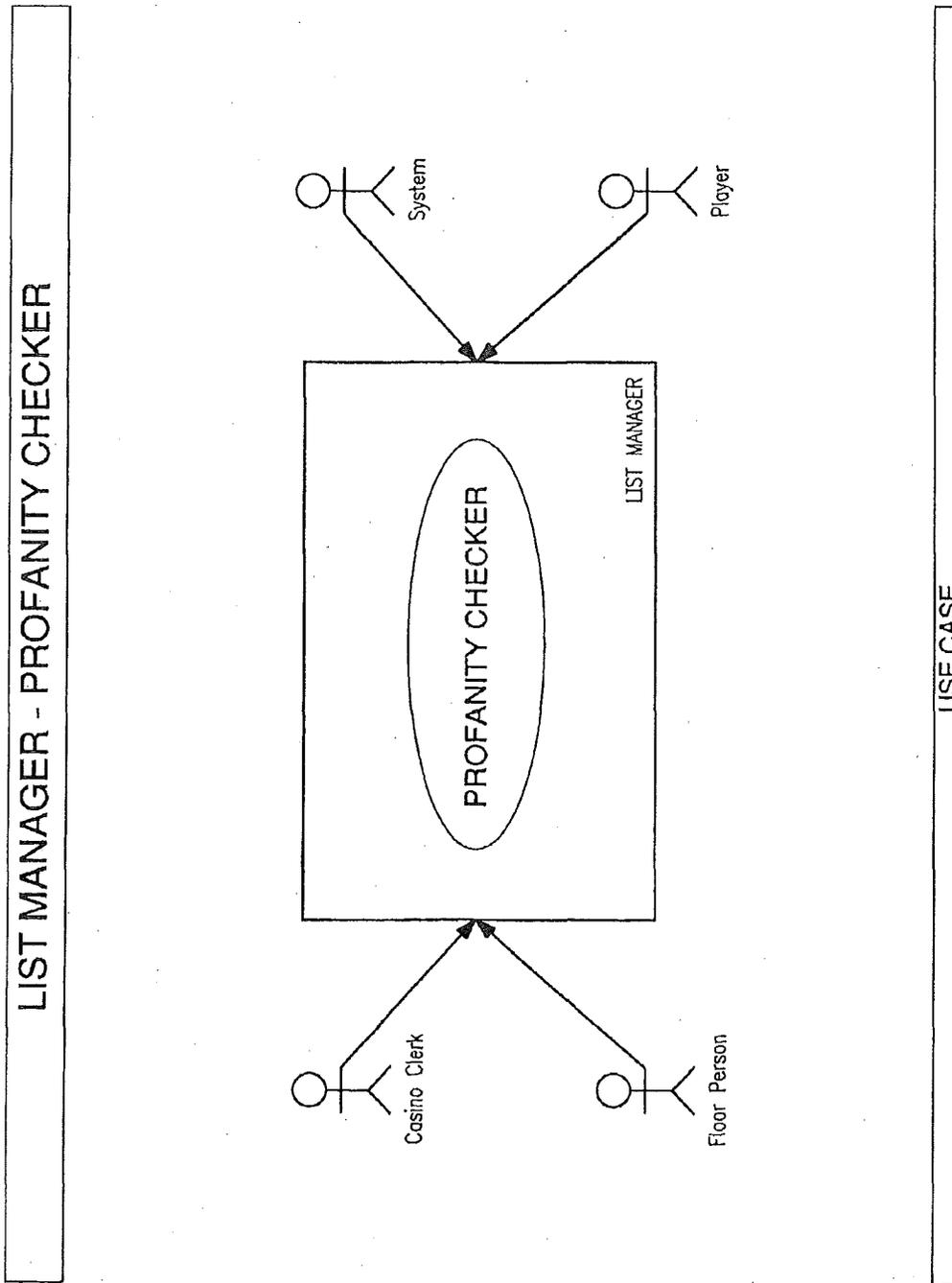


FIG. 55

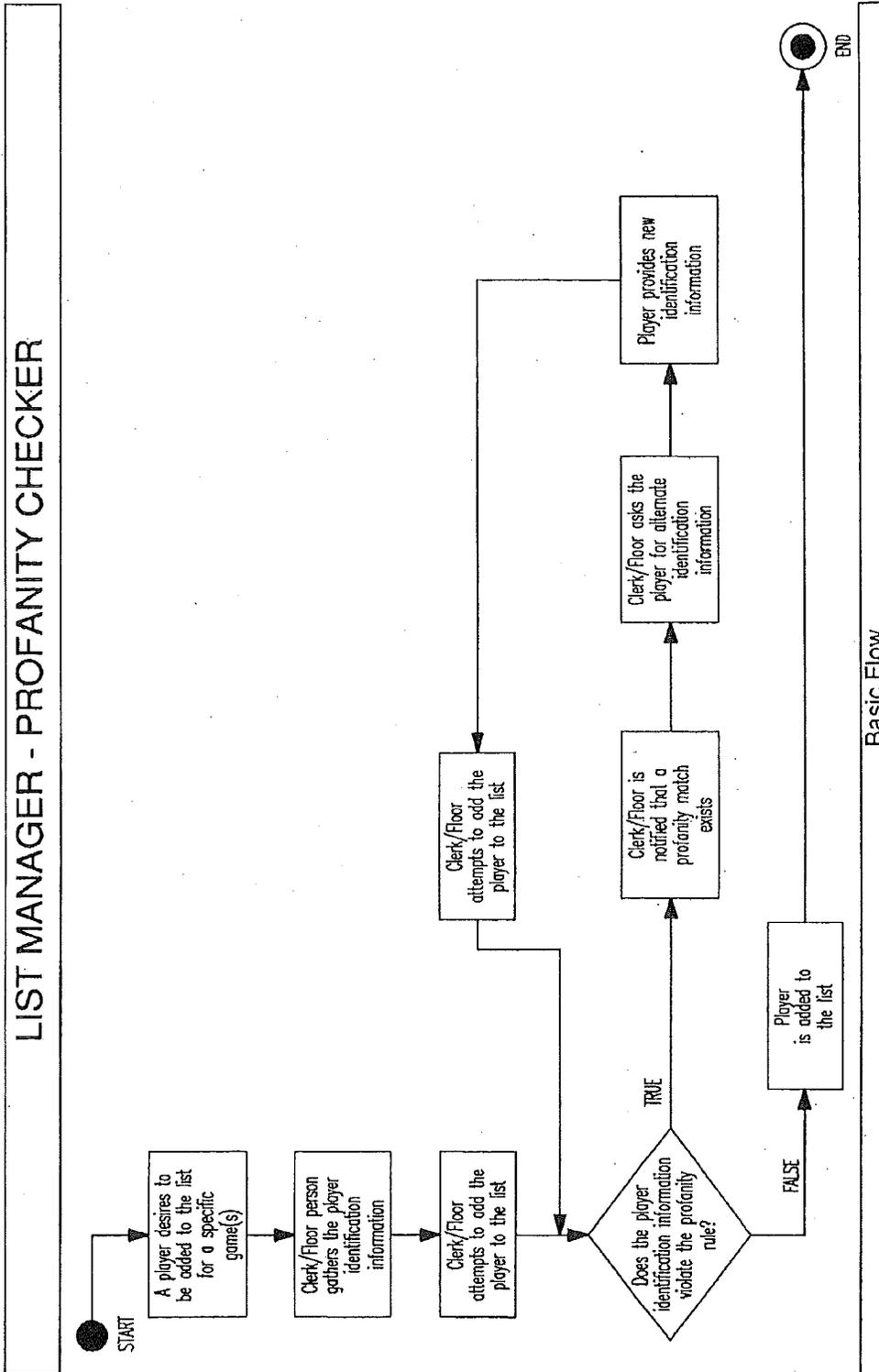


FIG. 56

Basic Flow

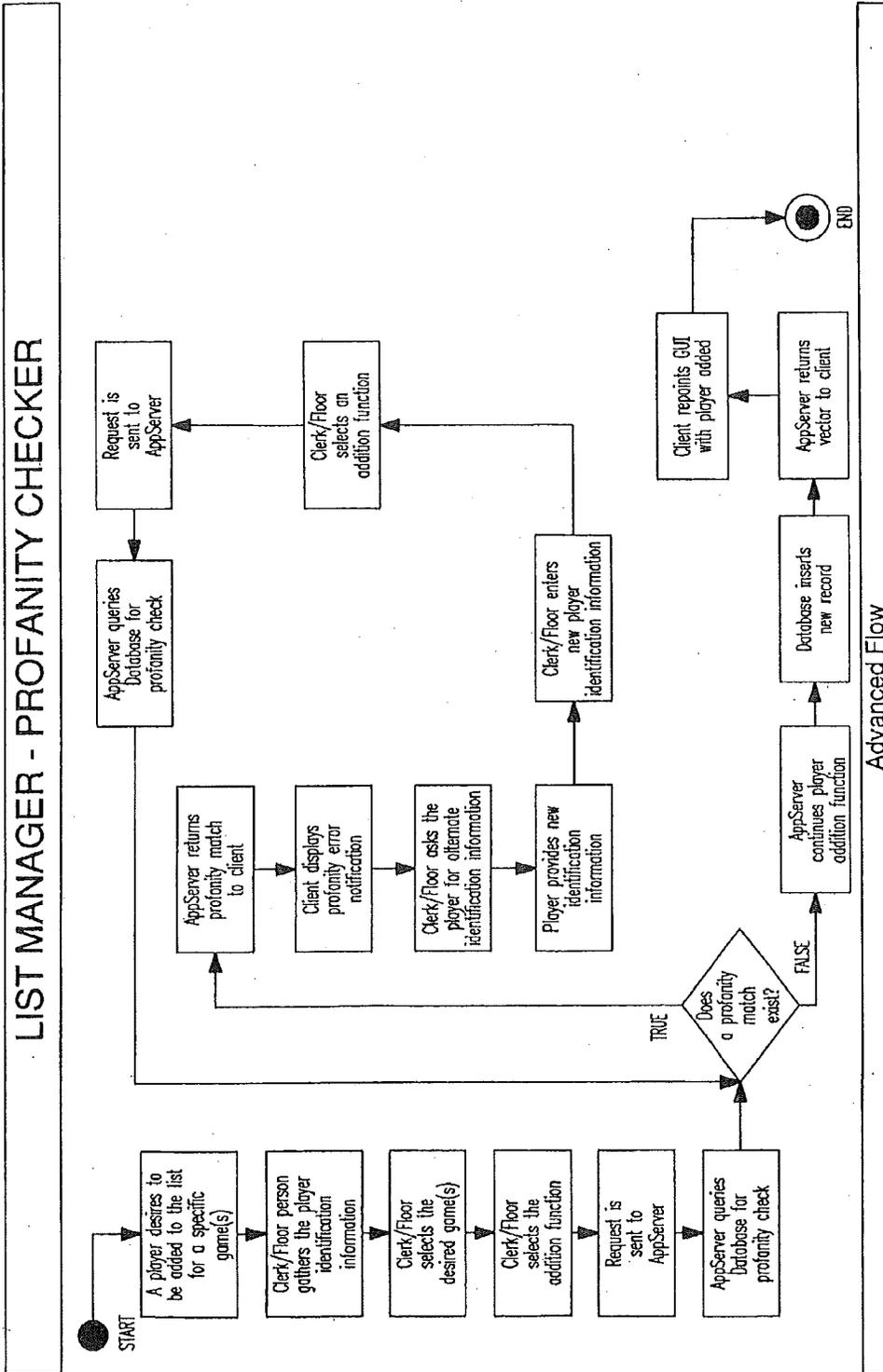


FIG. 57

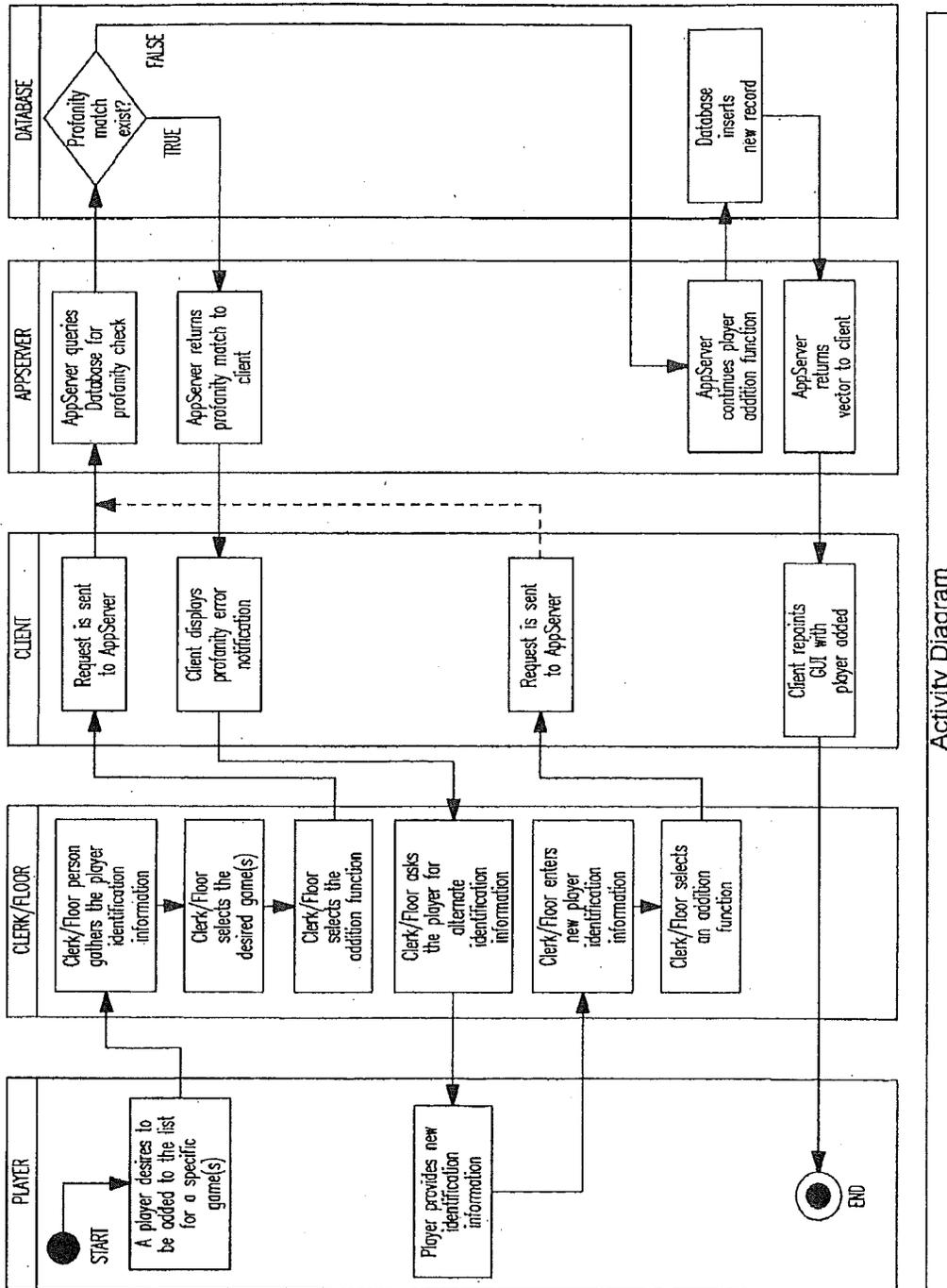


FIG. 58

Activity Diagram

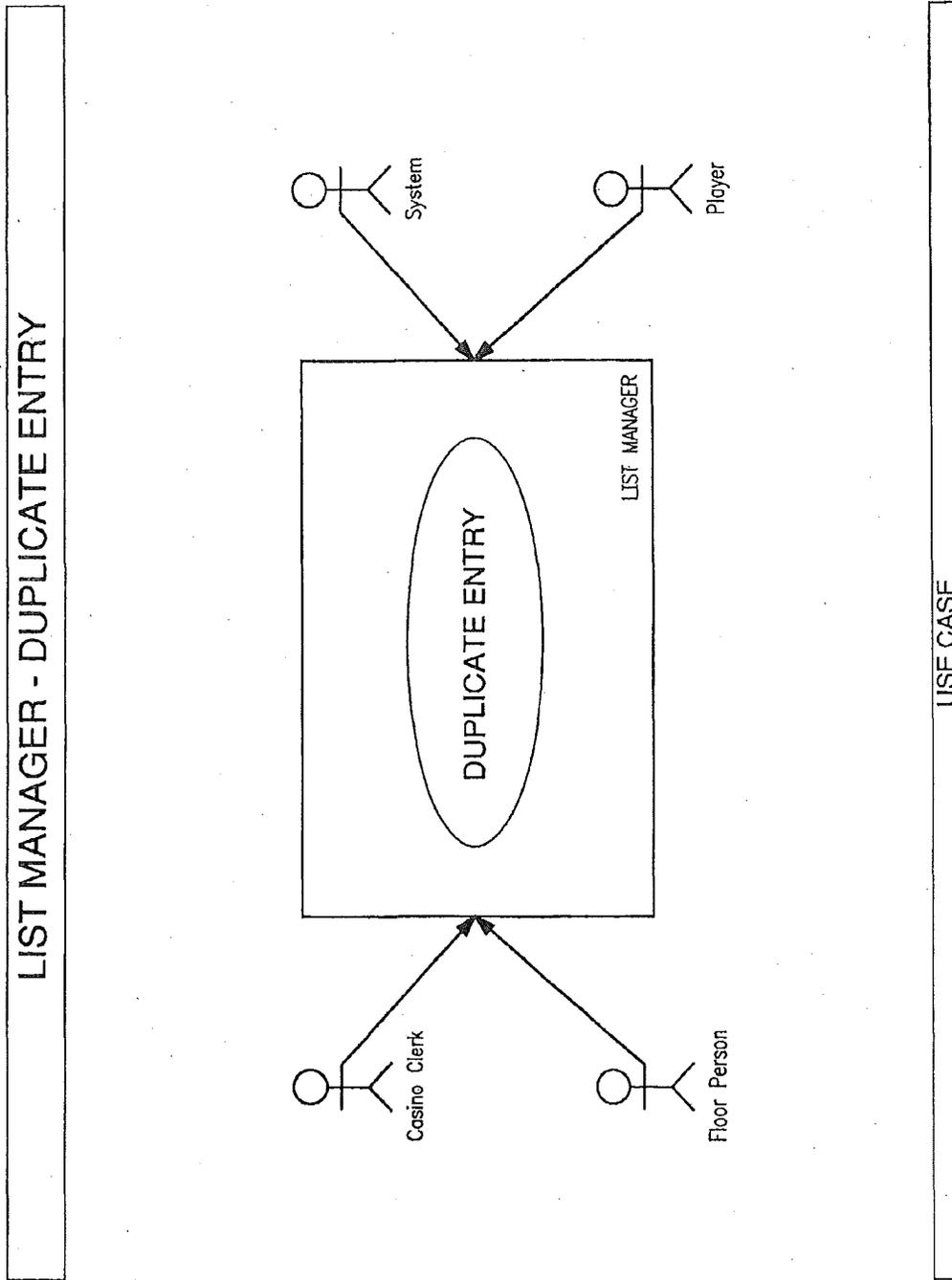


FIG. 59

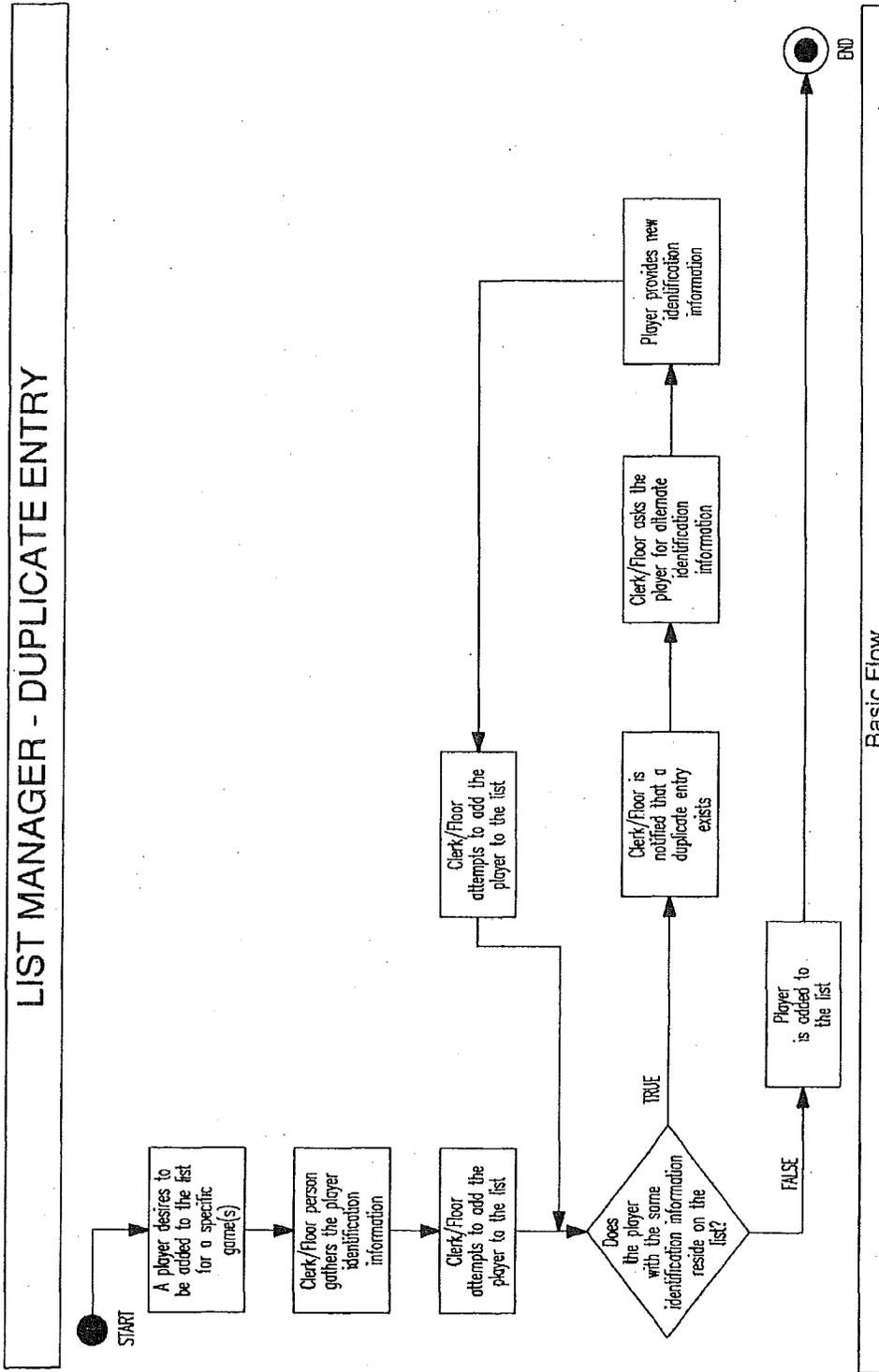
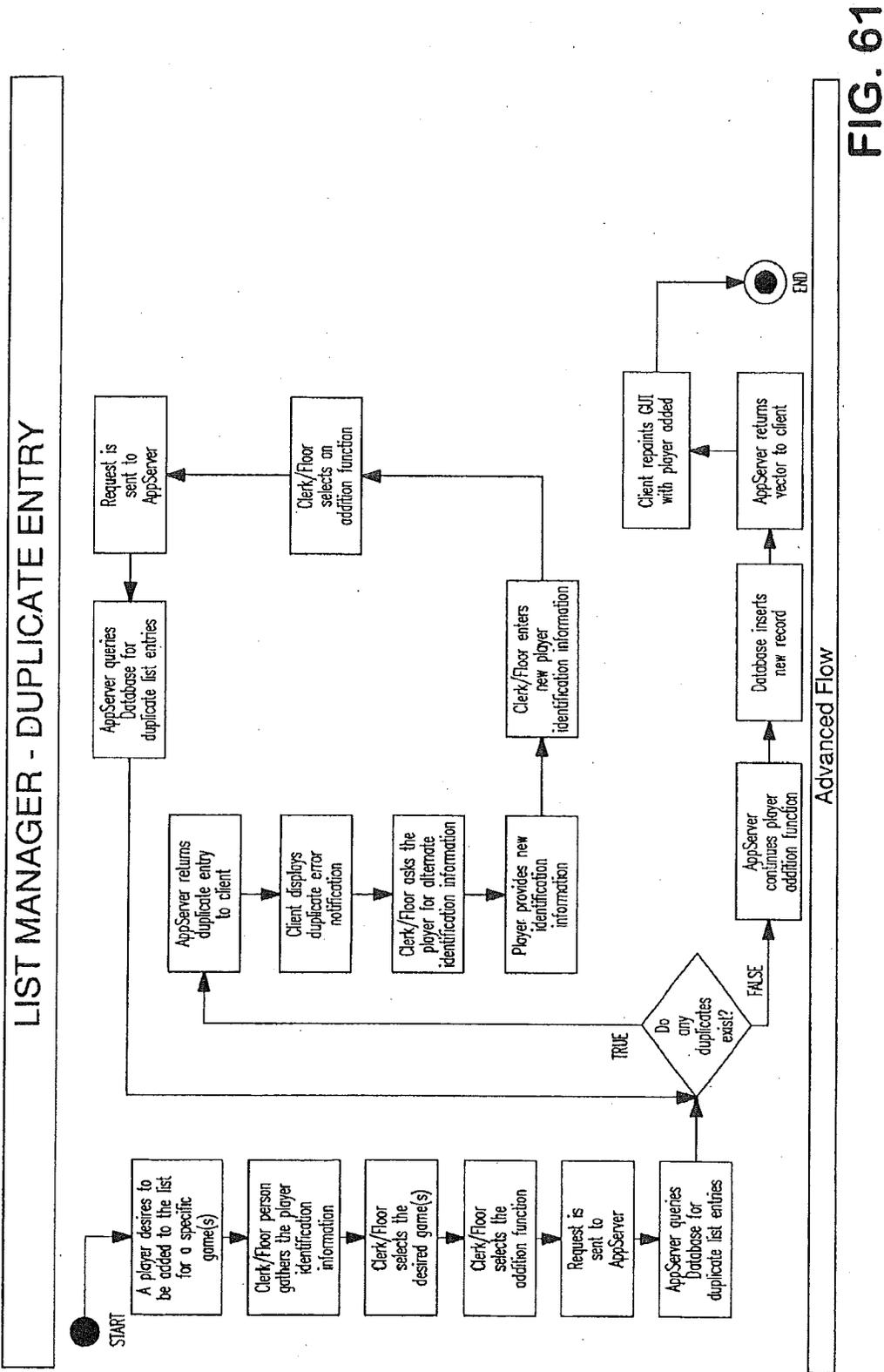


FIG. 60



**FIG. 61**

Advanced Flow

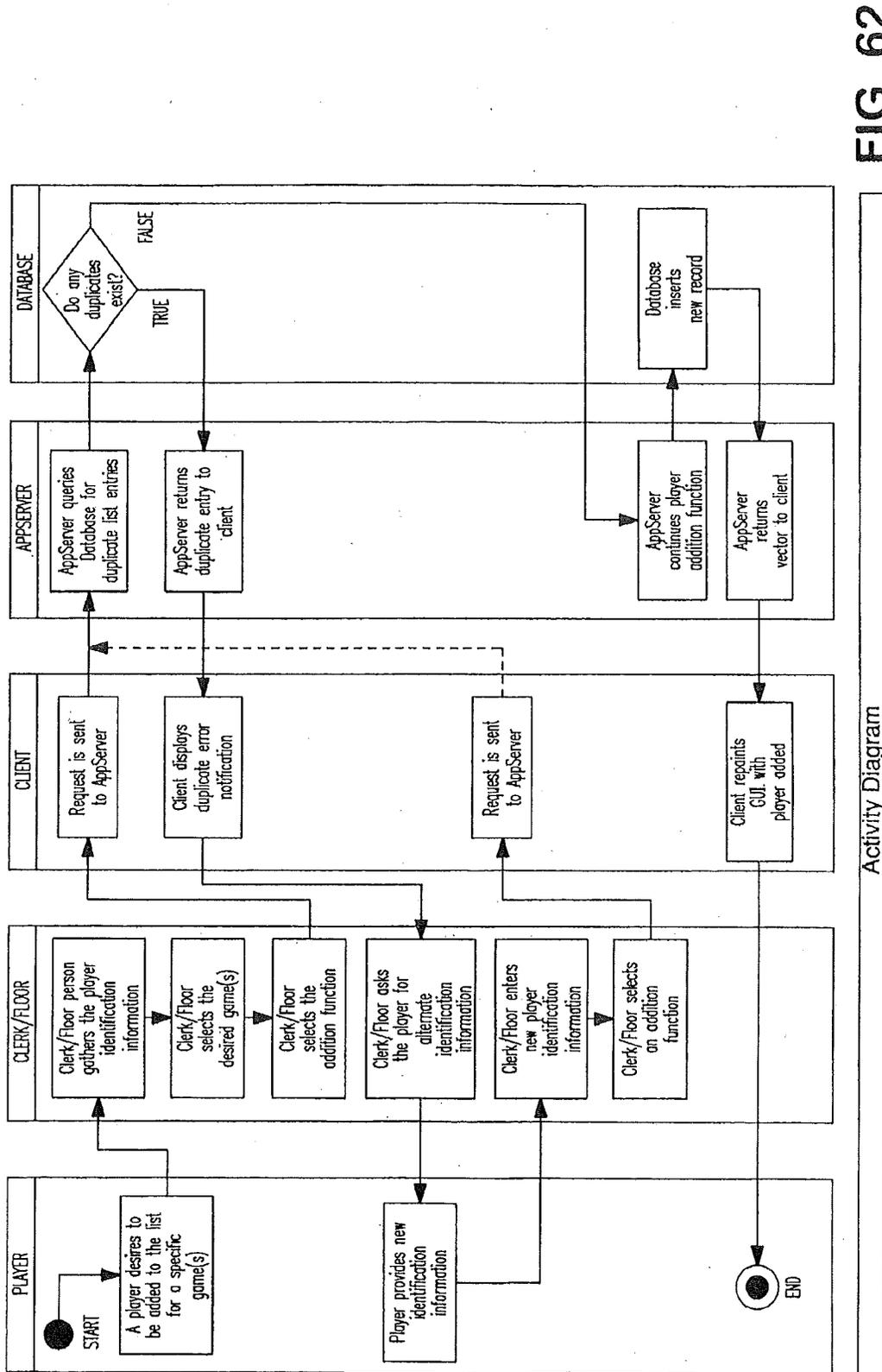


FIG. 62

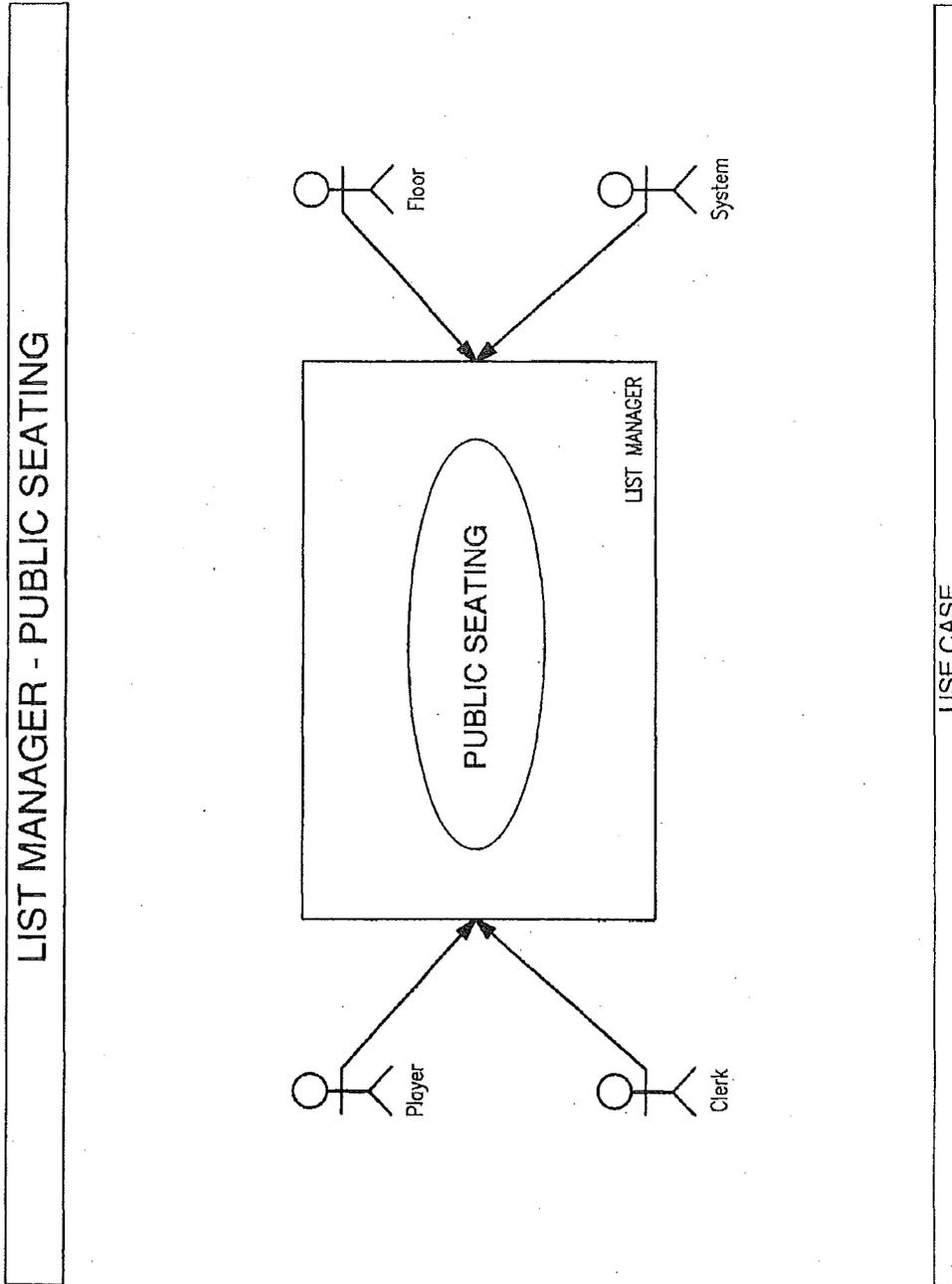


FIG. 63

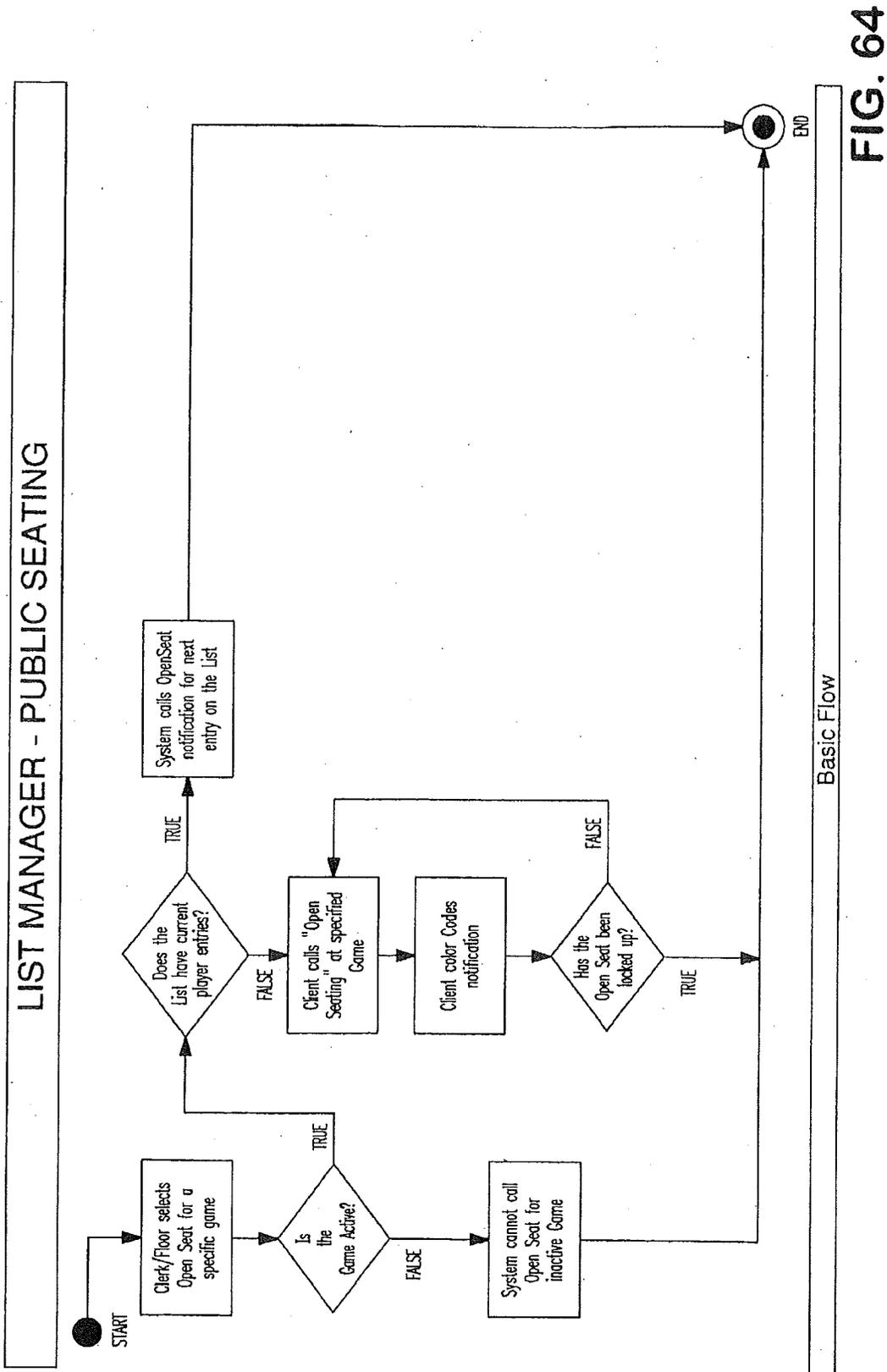


FIG. 64

Basic Flow

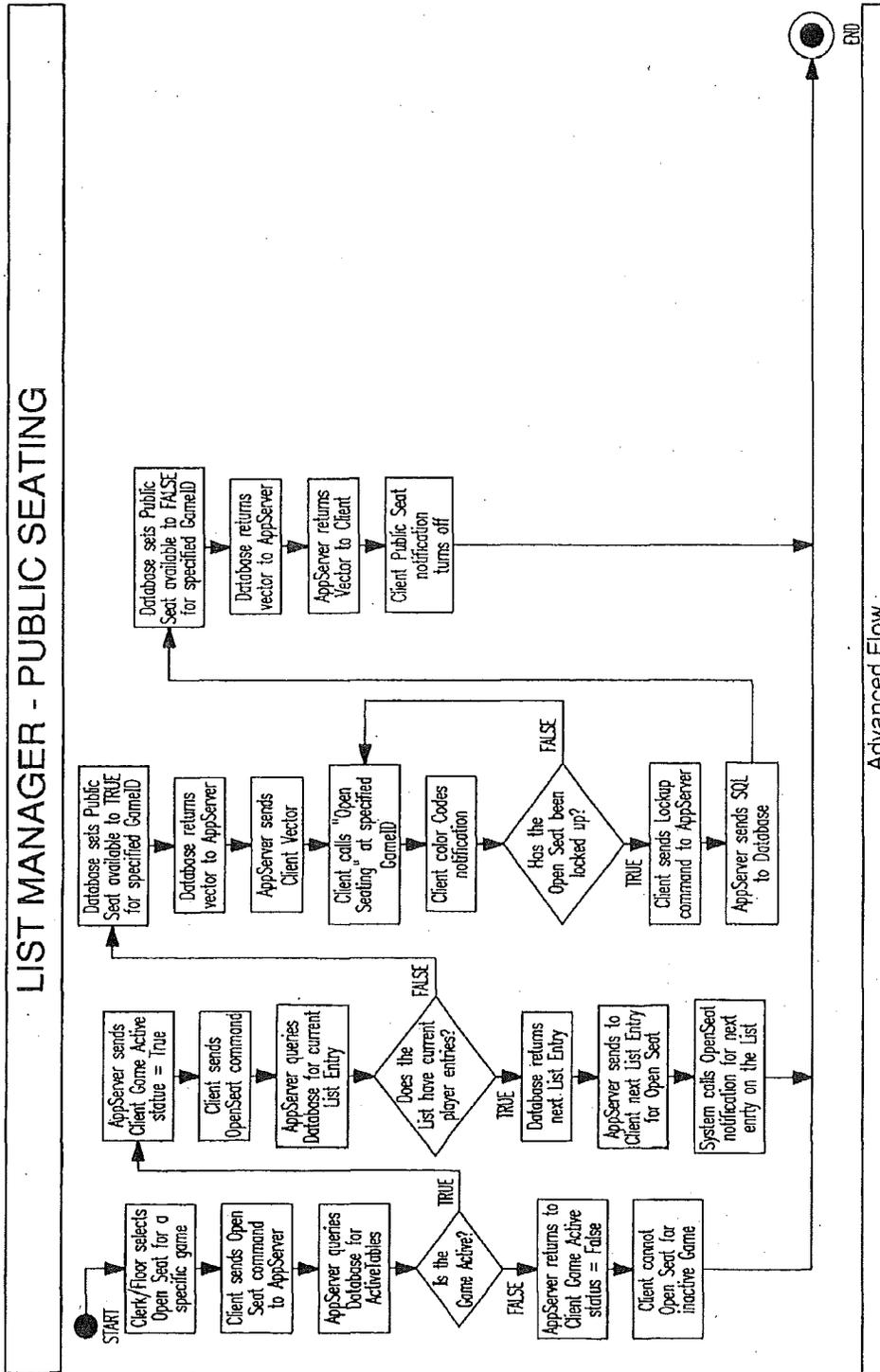


FIG. 65

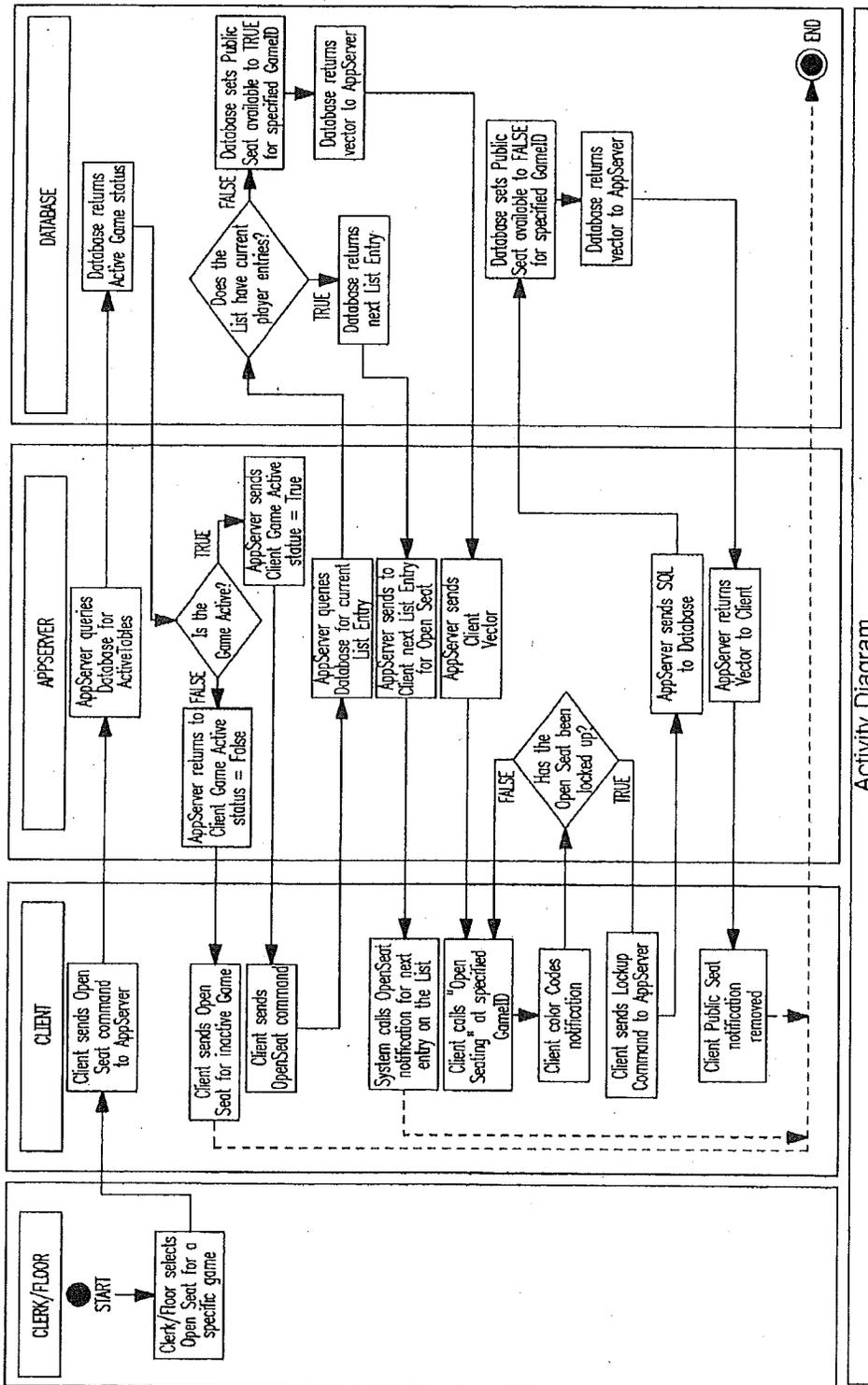


FIG. 66

Activity Diagram

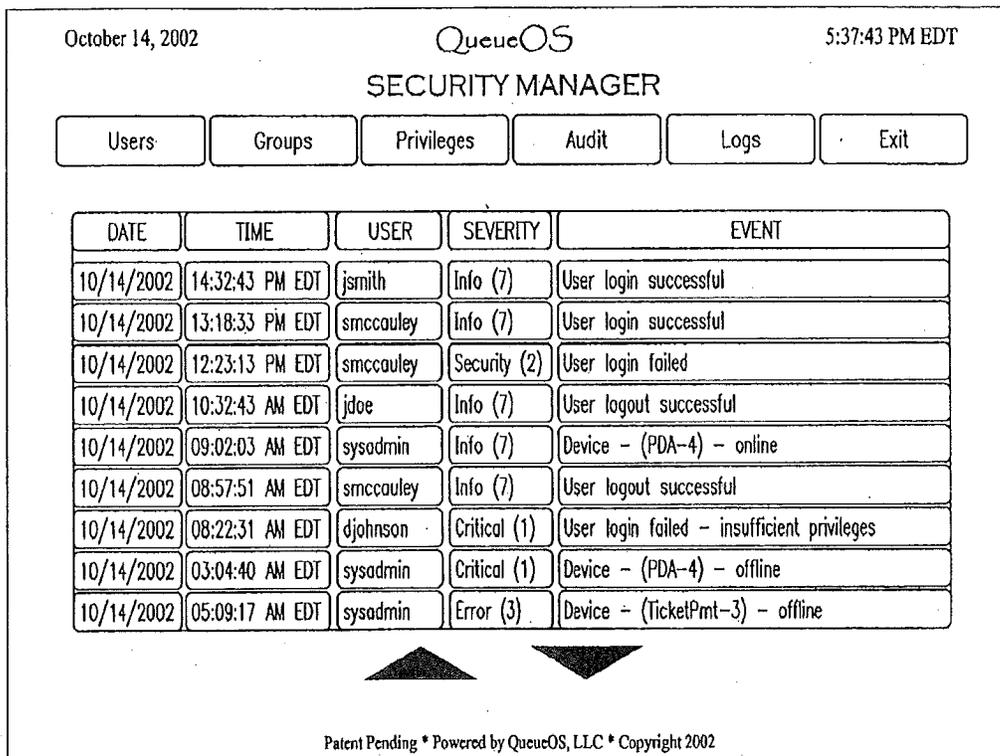


FIG. 67

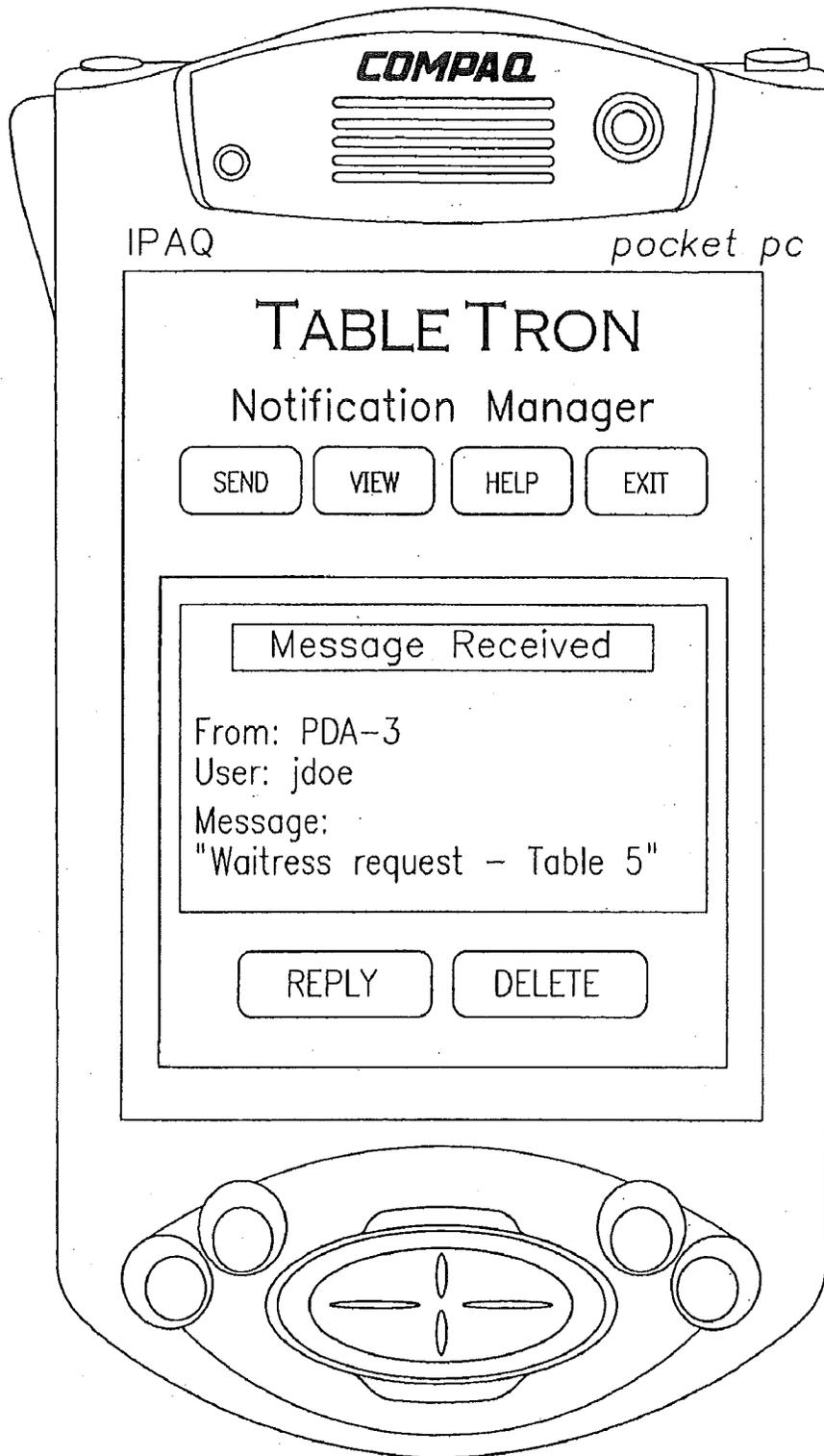


FIG. 68

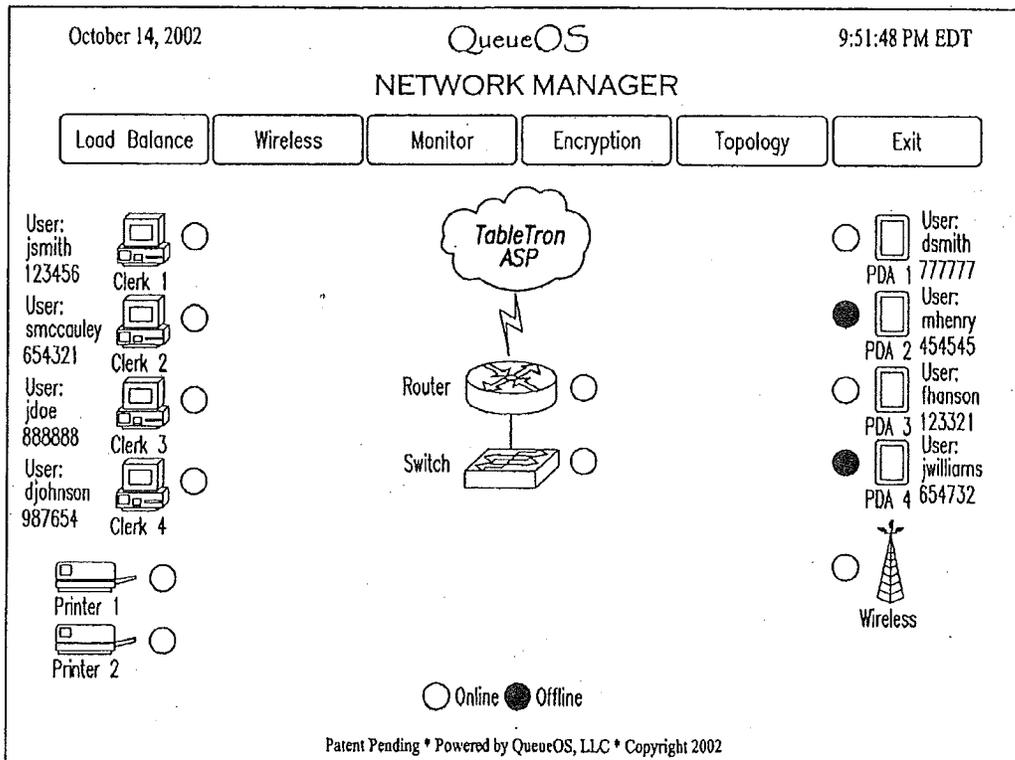


FIG. 69

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

FIG. 70

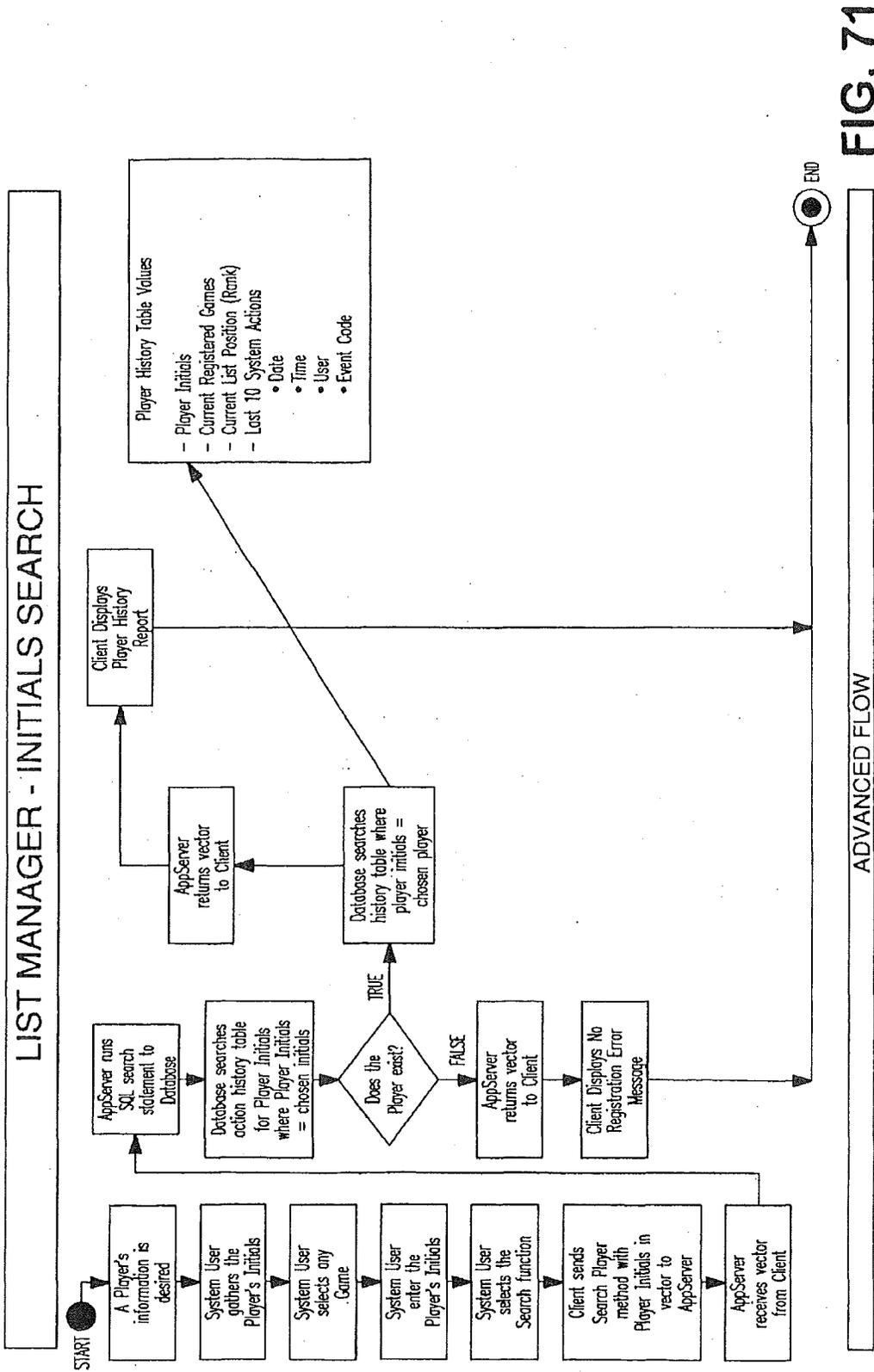
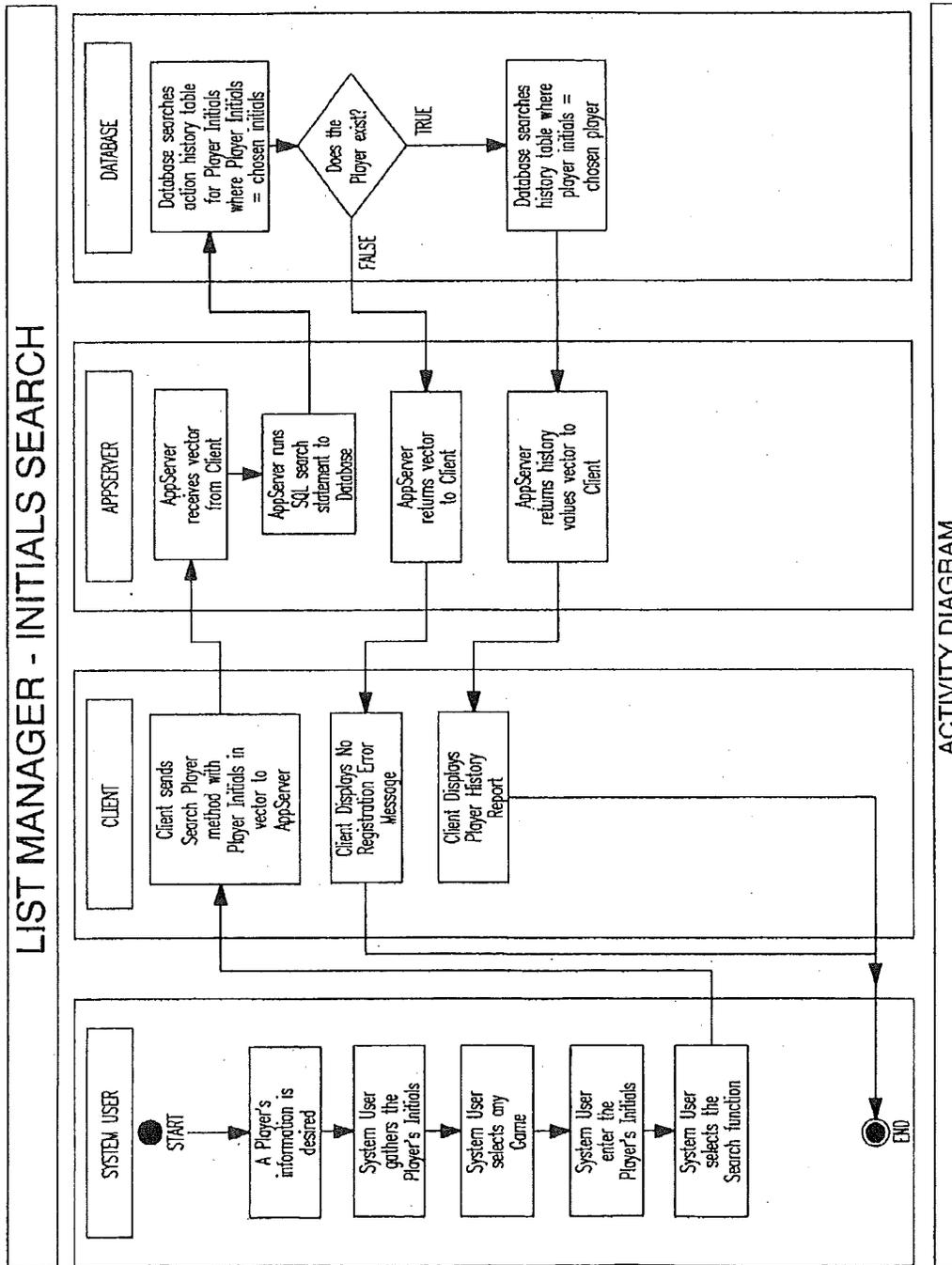


FIG. 71



**FIG. 72**

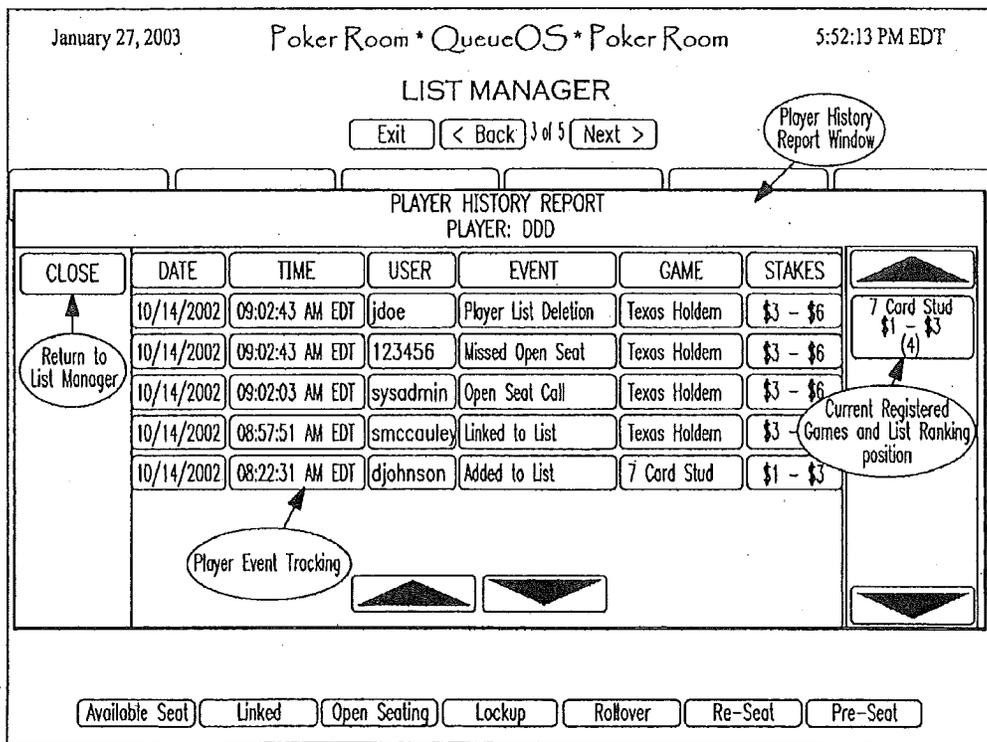


FIG. 73

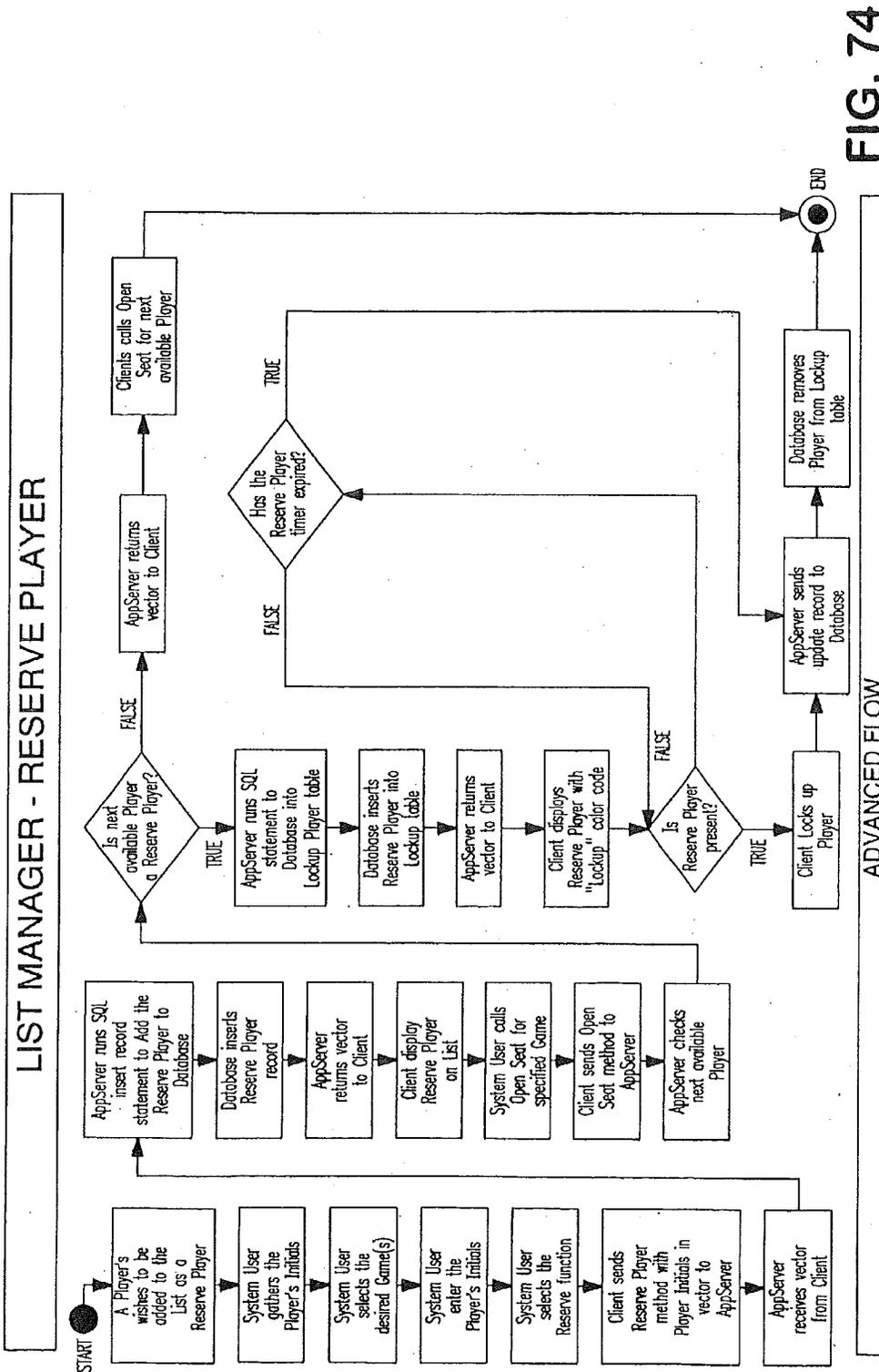


FIG. 74

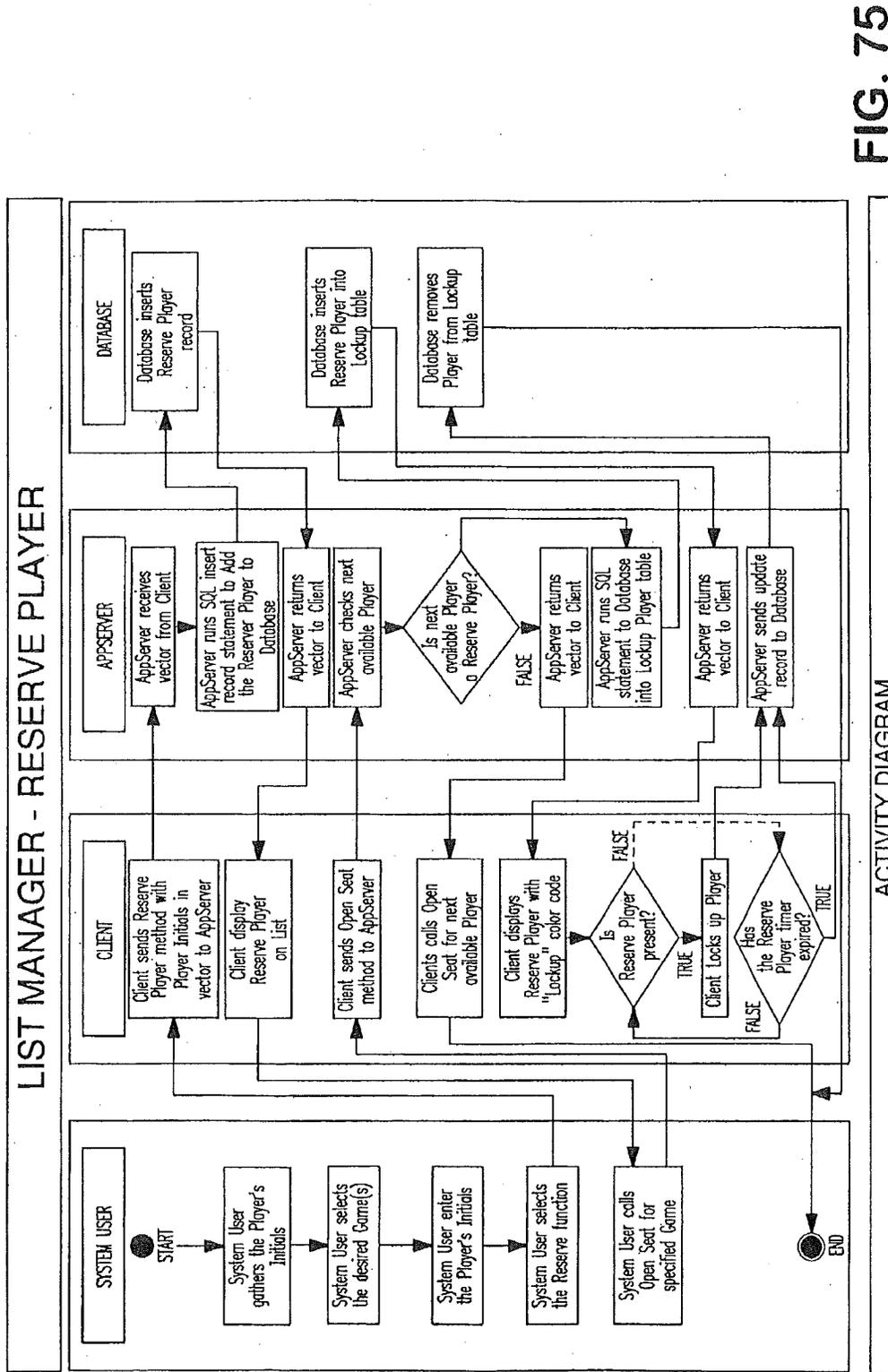


FIG. 75

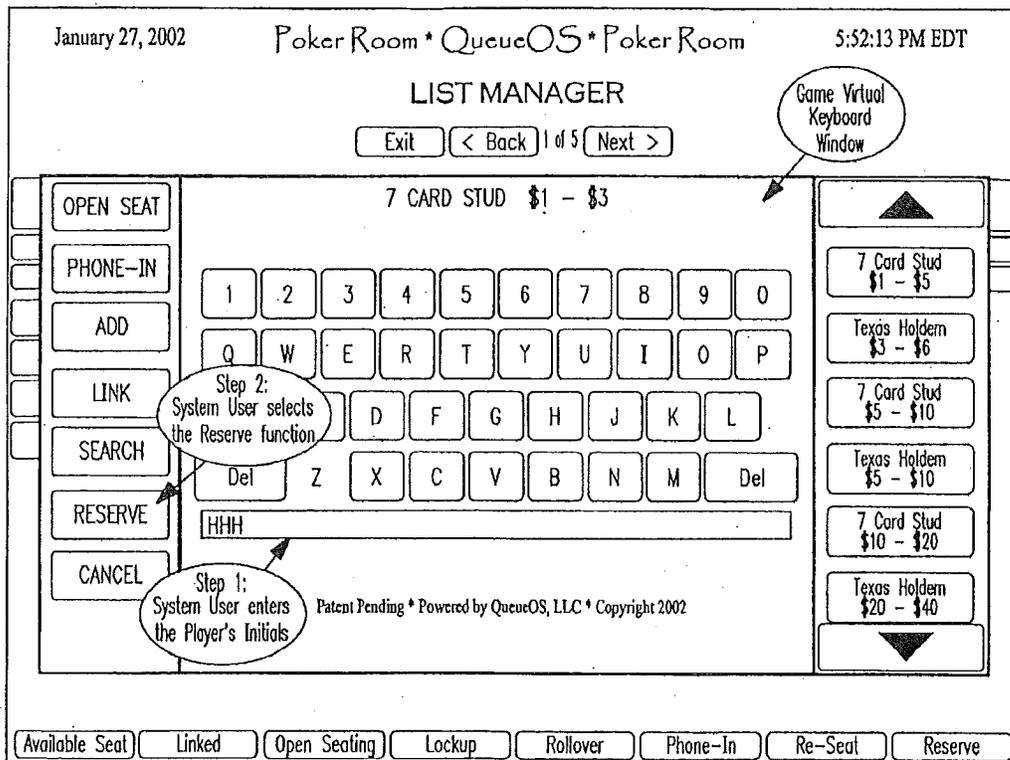
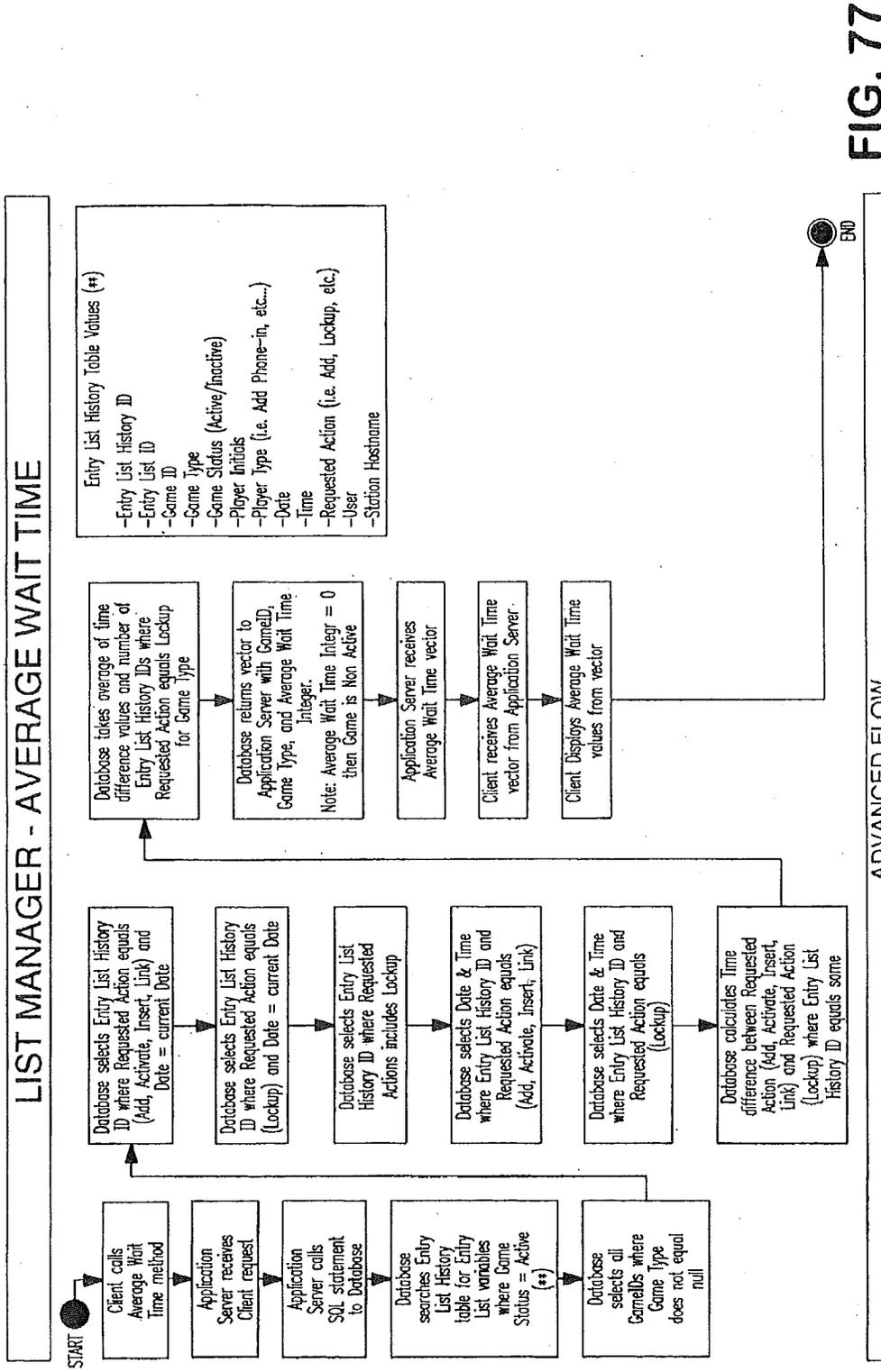
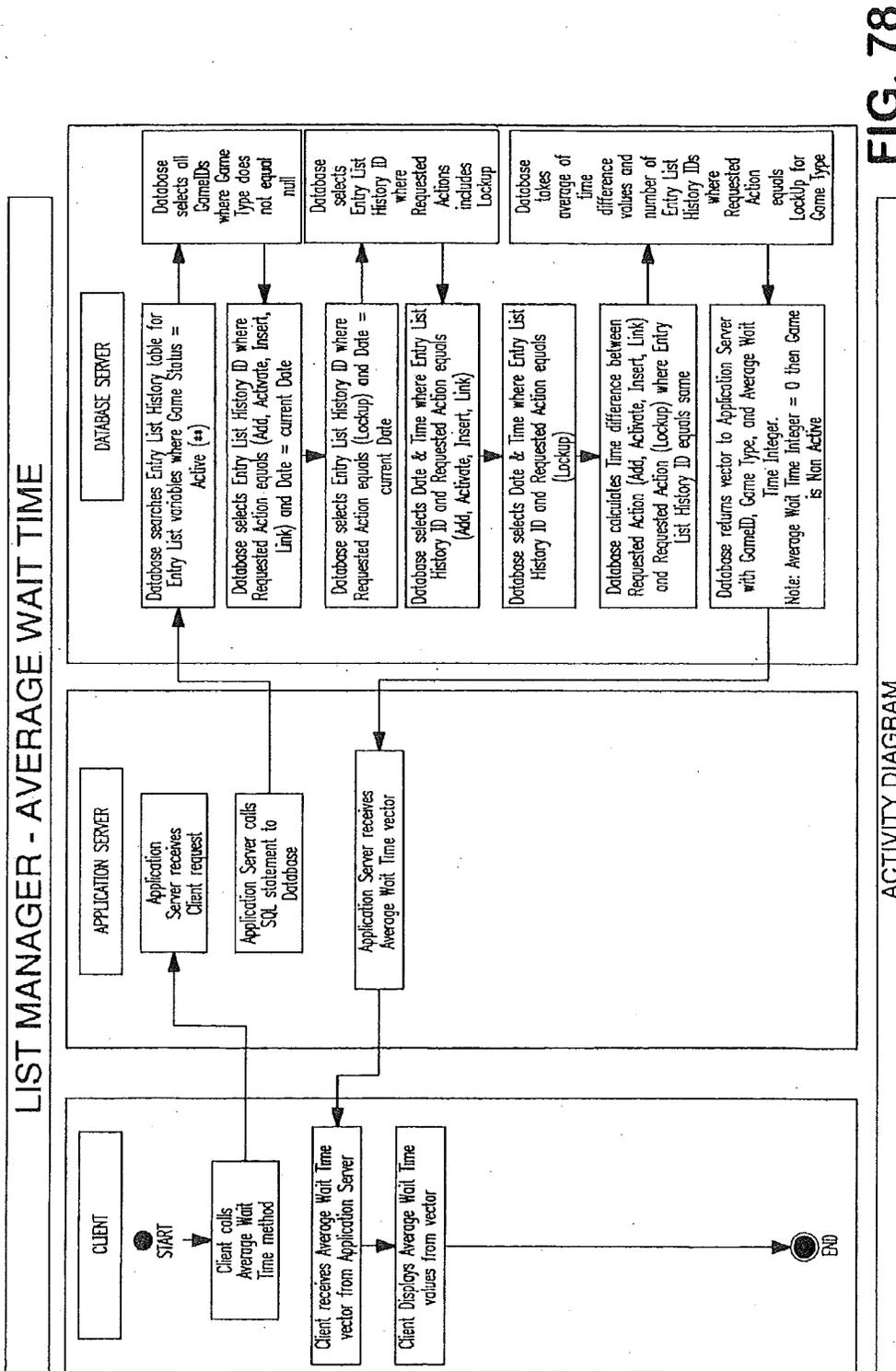


FIG. 76



**FIG. 77**



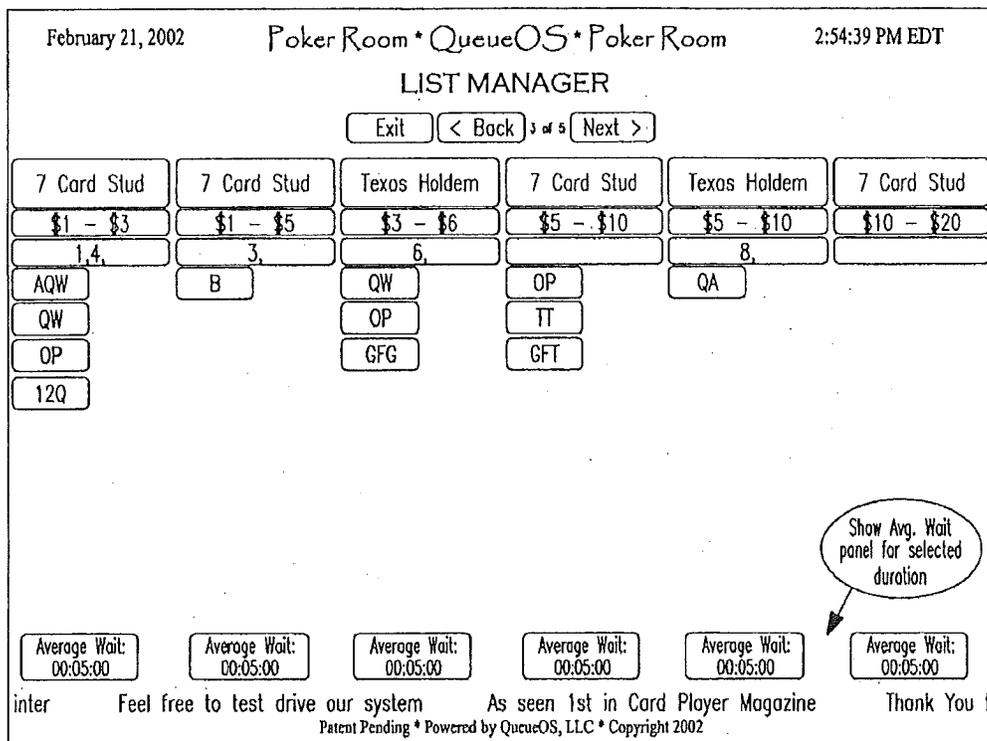
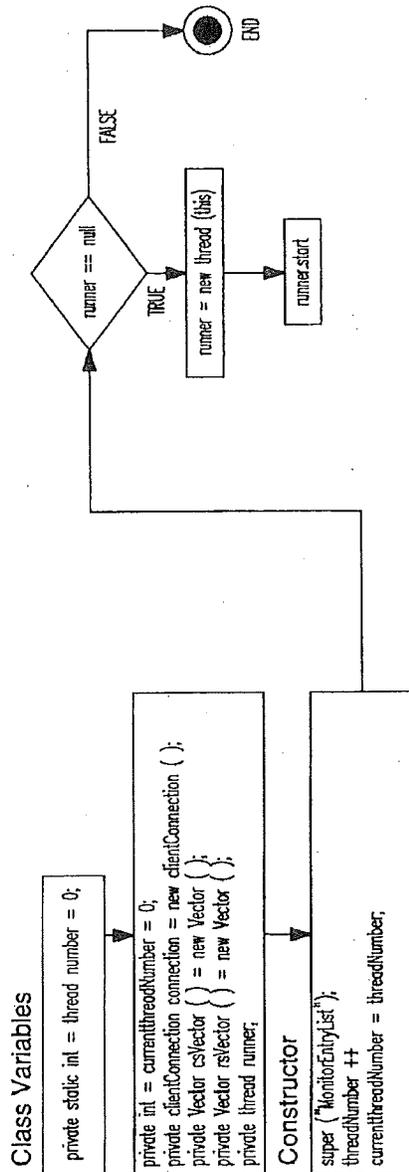
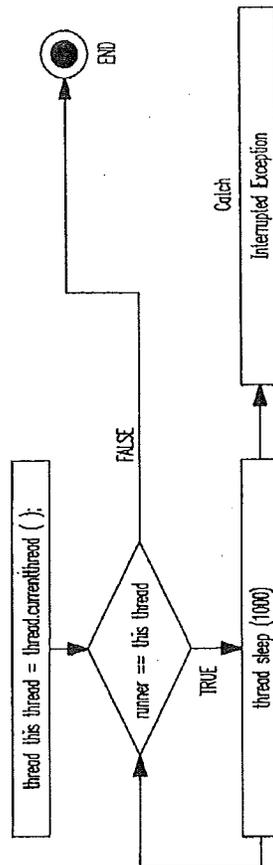


FIG. 79

MonitorEntryList - extends a thread implements runnable



run () method



CLASS DIAGRAM

FIG. 80

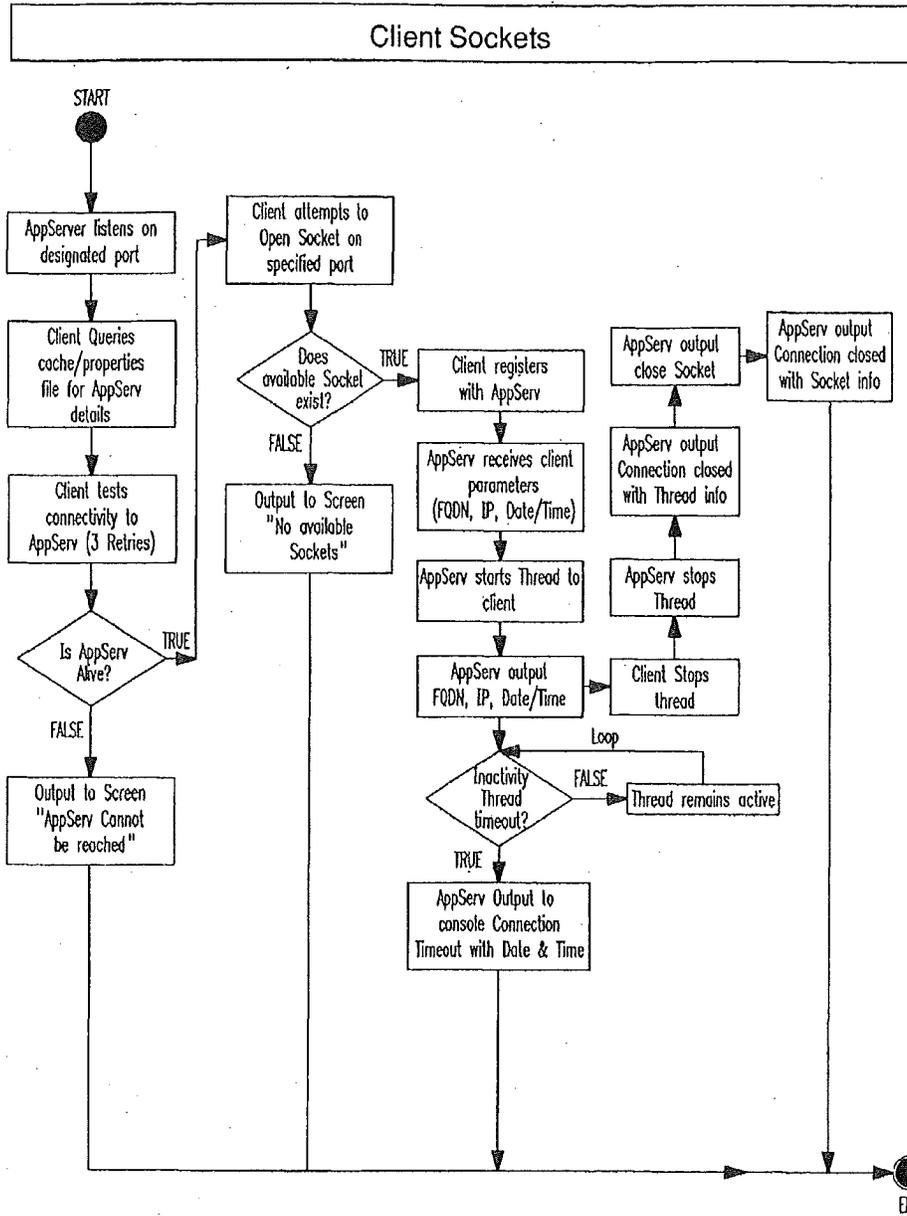


FIG. 81

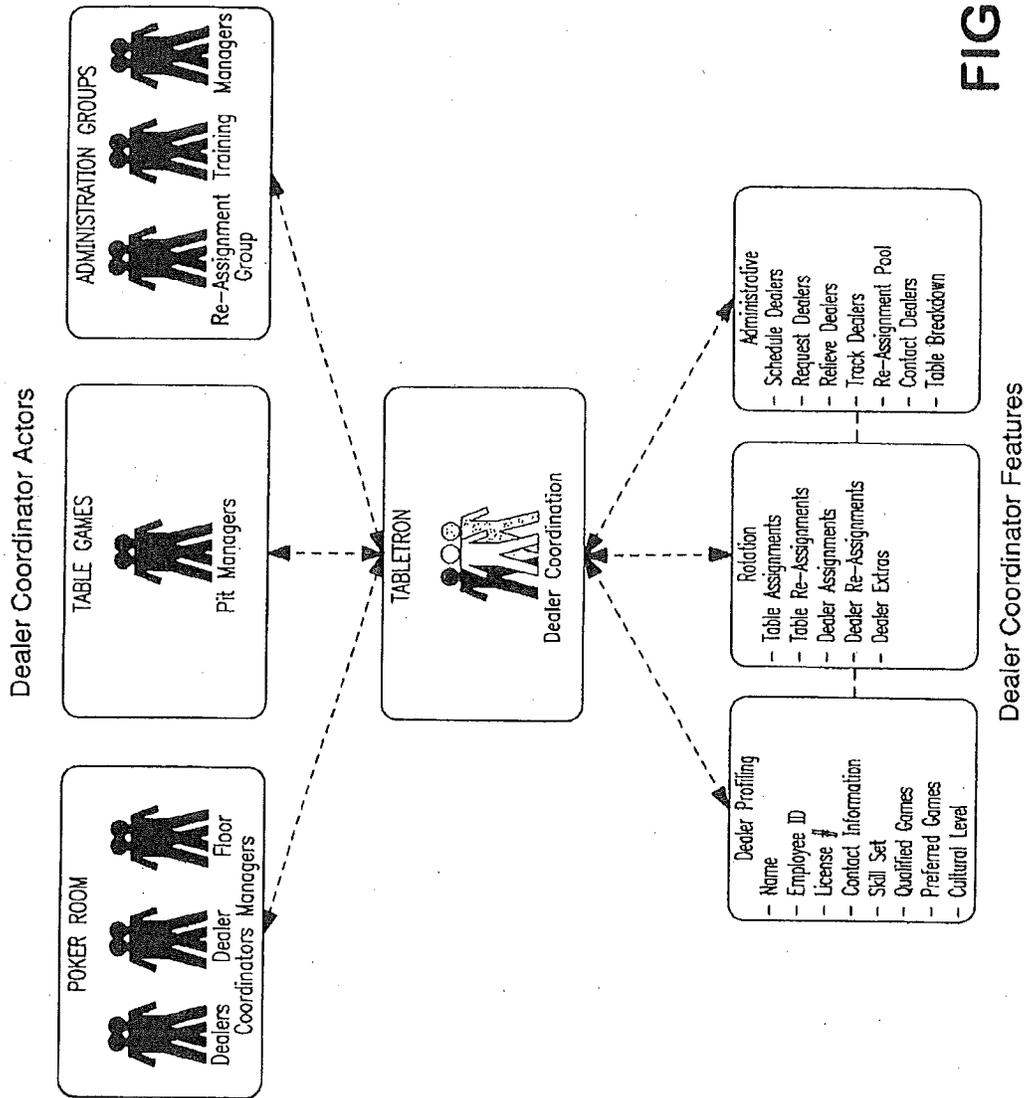


FIG. 82

Rotation Process

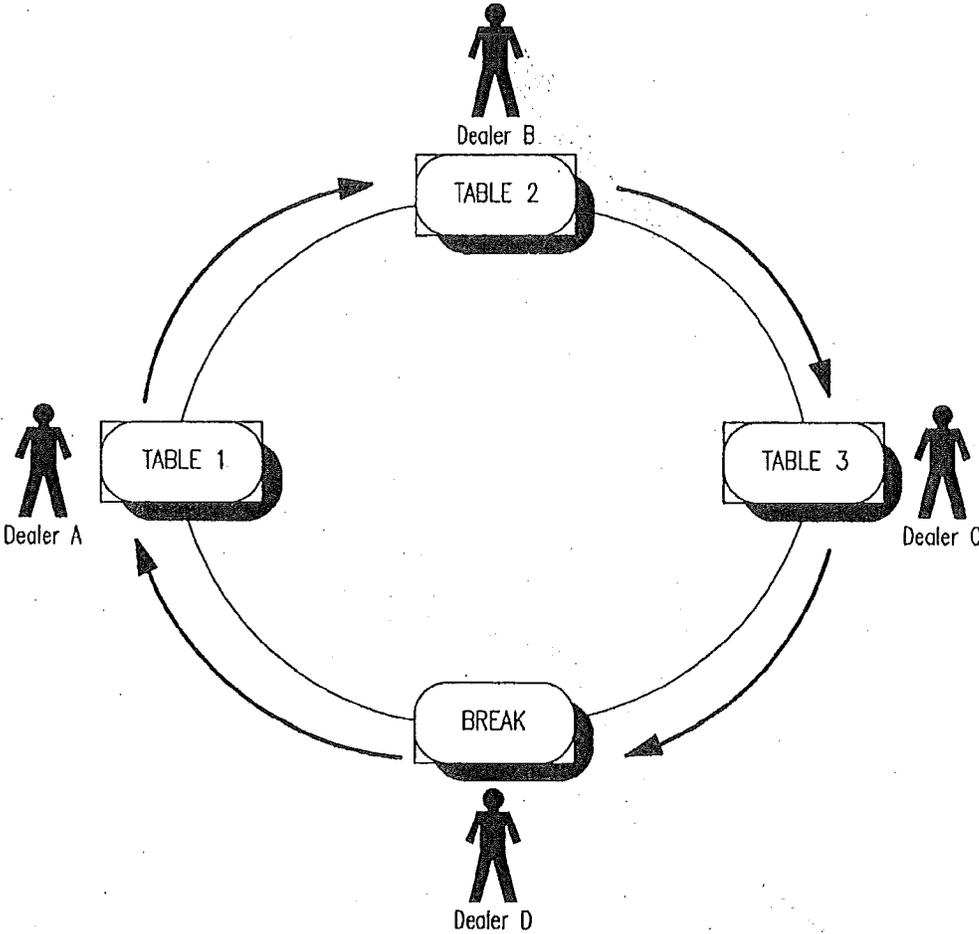


FIG. 83



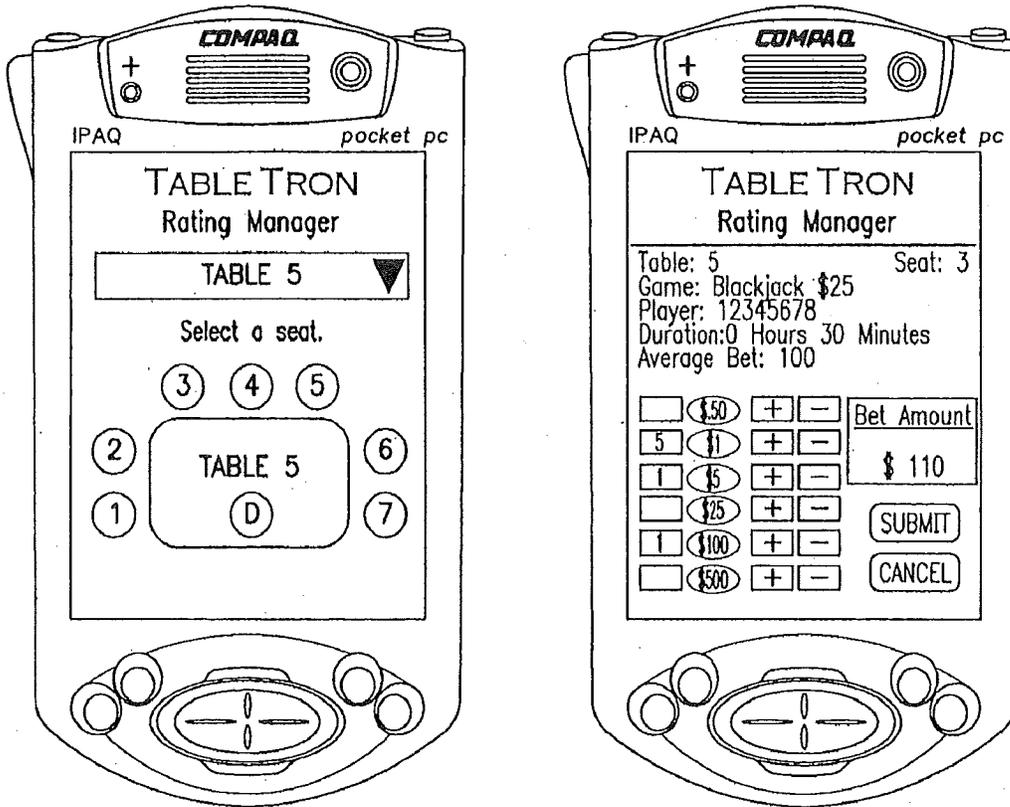


FIG. 85

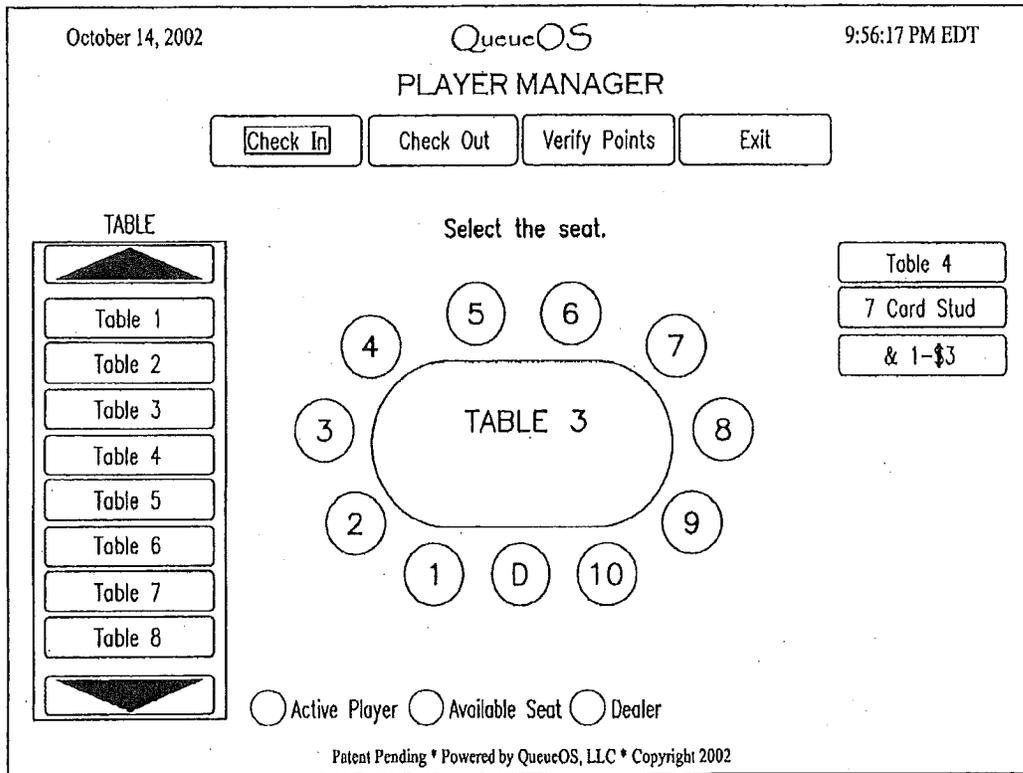


FIG. 86

March 11, 2003 QueucOS 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 1	TABLE 4
TABLE 6	TABLE 2	
TABLE 7	TABLE 3	
TABLE 8	TABLE 4	
TABLE 9		
TABLE 10		

BACK CANCEL NEXT

Patent Pending \* Powered by QueucOS, LLC \* Copyright 2002

**FIG. 87**

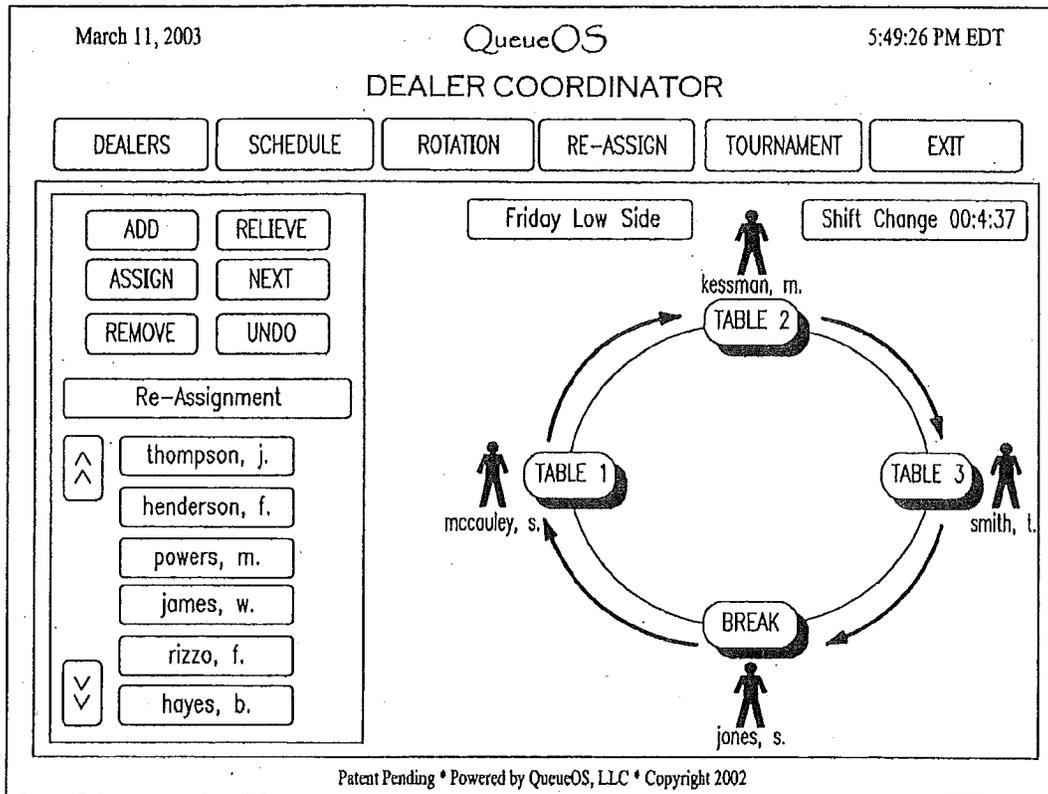


FIG. 88

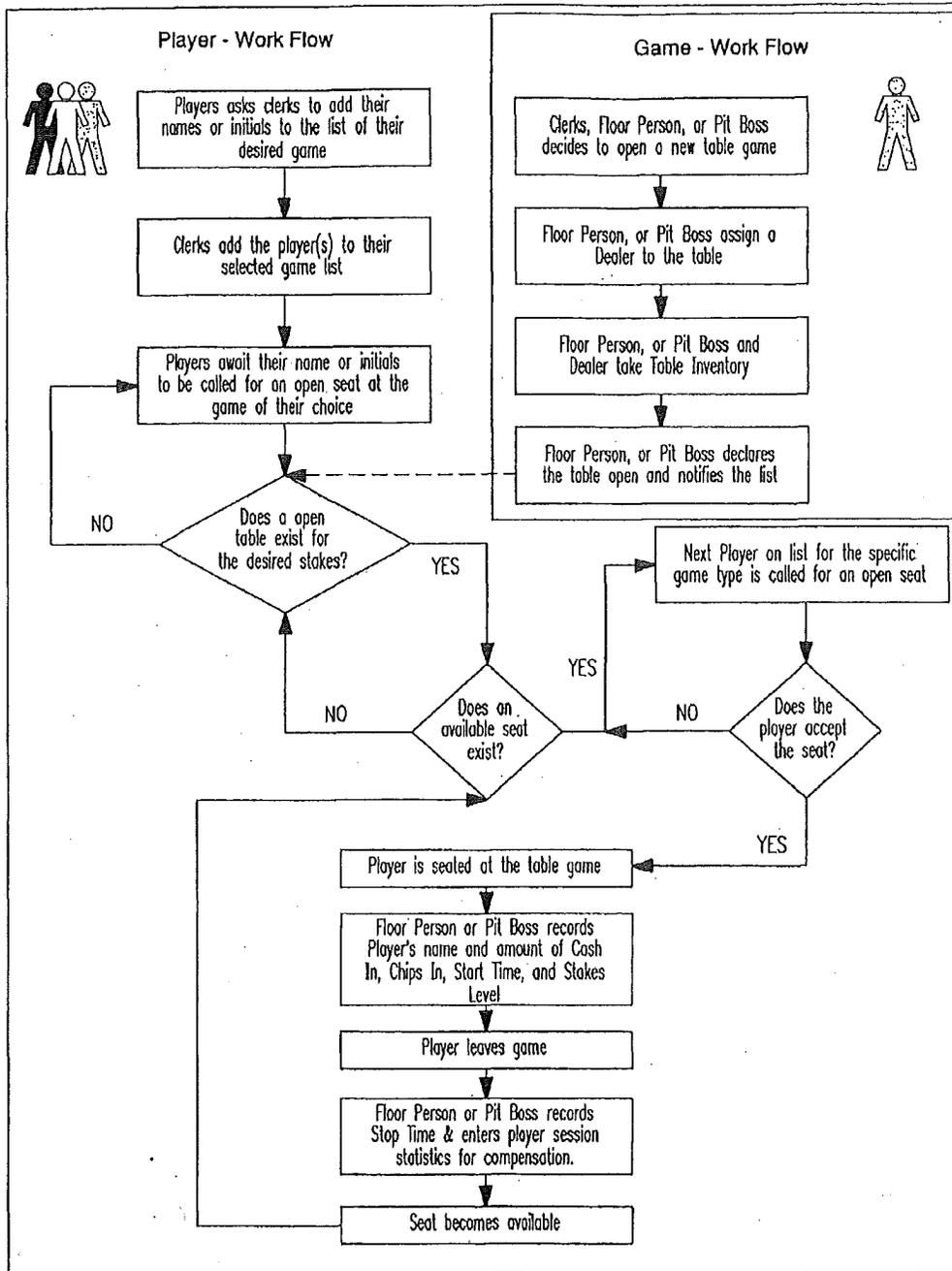


FIG. 89

US 8,393,969 B2

1

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

**CLAIM TO PRIORITY AND CROSS  
REFERENCE TO RELATED APPLICATIONS**

This application is a continuation of U.S. application Ser. No. 12/043,829, which is a division of U.S. application Ser. No. 10/452,231 (issued as U.S. Pat. No. 7,431,650), filed May 30, 2003, entitled "Casino Poker and Dealer Management System," which claims priority to 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 are incorporated herein 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 CardNumberFocusThread.java
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 ClientConnection.java
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 CreditRequestSummaryJPanel.java
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 FillCurrencyJButton.java
05/21/2002 12:37p	24,451 FillDenominationJPanel.java
12/17/2002 06:19p	6,416 FillJPanel.java

2

-continued

Creation Date and Time	SIZE FILENAME
5 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
10 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
15 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
07/23/2002 05:00p	2,877 InteractiveCalendar.java
20 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
25 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 ListDownArrowJButton.java
11/04/2002 06:18p	2,298 ListGameButton.java
30 05/08/2002 09:06p	2,361 ListGameScrollButton.java
11/04/2002 06:19p	6,607 listManager.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
35 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
40 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 MonitorOpenSeat.java
12/16/2002 12:54p	4,611 MonitorOpenTable.java
45 12/16/2002 01:17p	2,516 MonitorPhonelnList.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
50 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 NotificationManagerConsole.java
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
55 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 PlayerCashPanel.java
60 11/04/2002 06:19p	11,415 PlayerChipPanel.java
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 PlayerHistoryView.java
12/17/2002 06:23p	28,306 PlayerManagerConsole.java
02/05/2003 02:06a	5,682 PlayerPanel.java
65 11/04/2002 06:19p	2,307 PlayerSeatButton.java
11/04/2002 06:19p	4,254 PlayerSummaryPanel.java

-continued

Creation Date and Time	SIZE FILENAME
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 PublicSeatingAnnounce.java
04/22/2003 11:47a	4,976 PublicSeatingMaintenanceThread.java
04/10/2003 02:19p	5,184 QueryParameters.java
08/02/2002 01:45p	11,073 RatingChipPanel.java
11/04/2002 06:19p	2,313 RatingCurrencyJButton.java
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 RatingPlayerInfoPanel.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 srelist.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

-continued

Creation Date and Time	SIZE FILENAME
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
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 TournyNode.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

35 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.

40 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.

45 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 stand- ings, 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, 50 and oversight are provided by the Dealer Coordinator (DC).

55 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 60 in rotations, and Tables where the table games are played require support.

FIGURES

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

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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.

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

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

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

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

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

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

FIG. 46G 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.

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(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

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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 (or others 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

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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 displayed 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 calculator 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.

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#### "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.

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**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

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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 information 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 report-

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ing. 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.

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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.

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**"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.

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**"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.

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## "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

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transmitted electronically to the casino back end system. A system printed receipt allows employee signatures and barcode verification for tracking.

## "Fill"

5 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 barcode verification for tracking.

## "Marker"

10 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"

15 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.

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

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

30 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.

35 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"

45 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:

50 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

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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  
 RatingCurrencyJButton.java RatingGamePanel.java  
 RatingJPanel.java  
 RatingManagerConsole.java RatingPanel.java  
 RatingPlayerinfoJPanel.java RatingPlayerPanel.java  
 RatingSeatButton.java  
 RatingSeatsJPanel.java  
 RatingSummaryPanel.java 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 has 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

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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 enter 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 wagering 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 pre-defined 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	10:00 AM	12:00 PM	2

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

$$\text{Rating per session} = 2 \text{ (hours of play)} \times 1.50 \text{ (hourly rating amount for a level 2 player)} = \$3.00$$

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 interface allows a player to be checked into or checked out of a particular 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
- PlayerCashPanel.java
- PlayerChipPanel.java
- PlayerGameButton.java

- PlayerGamePanel.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.

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**"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.

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**"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.

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**"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. 43-46A 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. 46B-46G 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

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actors that may initiate the "Multiple" (Also called "Multiple Add") function. FIGS. 48-50 describe in detail the process of "Multiple".

**"Reset 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 1024x768. 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 computerized method for monitoring a physical casino poker game comprising:
  - a. receiving a poker player check-in input containing player identification information and player poker game type preference;
  - b. identifying a particular player in a player database from the player check-in input;
  - c. determining the seating availability for said particular player’s poker game type preference from a table availability database including game types in real time;
  - d. adding said particular player to a waitlist for said poker game type preference if no matching table for said game type is currently available;
  - e. displaying indicia identifying said particular player on a public waitlist display, said public display including the display of information comprising at least two different poker game types and waiting players for each game type and wherein said public display is suitable for viewing by a multiplicity of players or prospective players throughout the poker room;
  - f. selecting a table for said particular waiting player matching said waiting player’s selected game type when it is available and then assigning said player to that available table;
  - g. receiving check-out input regarding said particular player containing player identification information;
  - h. identifying the particular player from the player check-out input information;
  - i. removing the player from the game and from the table;

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- j. updating the table availability to reflect that a seat for the particular poker game type at said table is currently available;
  - k. ascertaining the total elapsed time between receiving the check-in input and the check-out input of the player;
  - l. transmitting the total elapsed time to a compensation system; and
  - m. calculating an amount of compensation for the particular player based on the total elapsed time and storing the calculated compensation in at least one of a system database or the player database.
2. The method of claim 1, further comprising ascertaining periods of time during which the player is absent from or not participating in the game and subtracting such periods of time from the total elapsed time.
  3. The method of claim 1, further comprising receiving said check-in input and check out input from a card reader which reads a card containing player identification information.
  4. The method of claim 1, further comprising storing the particular player's current amount of compensation associated with the card number containing the player's identification information.
  5. The method of claim 1, further comprising assigning and tracking the particular player to a particular seat at the table in which said player is seated.
  6. The method of claim 1, further comprising locking up a seat for said particular poker player.
  7. The method of claim 1, further comprising selecting the next available poker player from the waitlist for that game type and assigning that next available player to the table made available from the previous player check-out and then updating the publicly displayed waitlist to reflect the new assignment.
  8. The method of claim 1, further comprising allowing the particular poker player to pre-register for said player's desired game type via the internet.
  9. The method of claim 1, further comprising allowing the particular poker player to check said player's information stored in said database via the internet.
  10. The method of claim 1, further comprising storing player information in a database not located in said physical casino.
  11. The method of claim 1, further comprising automatically assigning player seating as each new seat becomes available.
  12. The method of claim 1, further comprising providing remote technical support of the system over the internet via web connector functionality.
  13. The method of claim 1, further comprising notifying players and/or staff of events or status changes.
  14. The method of claim 1, further comprising allowing a new player to initially request a player card and to enter said player's personal information to be associated with that card and for said personal information to be stored in the database.
  15. The method of claim 1, further comprising providing interactions over the internet via web publisher functionality.
  16. The method of claim 1, further comprising showing the specific tables available for each poker game type on said public display.
  17. The method of claim 1, further comprising providing must move functionality.
  18. The method of claim 1, further comprising providing an active dealer display.
  19. The method of claim 1, further comprising recording the time of a phone call from a player requesting advance sign in input and reflecting said request in the waitlist of the system.

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20. The method of claim 1, further comprising providing rollover functionality.
21. The method of claim 1, further comprising providing player self registration functionality.
22. The method of claim 1, further comprising providing player self registration functionality over the internet.
23. The method of claim 1, further comprising providing reserve player functionality.
24. The method of claim 1, further comprising providing jackpot display functionality with such information also shown on the public display of said system.
25. The method of claim 1, wherein the physical casino is a poker room or a card club.
26. The method of claim 1, wherein the players on the public waitlist are shown by a unique identifier.
27. A computer system for monitoring a physical casino poker game comprising:
  - a. a system database;
  - b. software enabled to set-up and maintain poker game types and tables associated with said poker game types, wherein said software is configured to provide real time table availability status in the system database;
  - c. software enabled to facilitate the receipt of a poker player check-in input including player identification information and the player's poker game type preference and identifying the particular player from the player check-in input utilizing a player database which includes information regarding previously registered players;
  - d. software enabled to determine table availability in real time for said particular player's poker game type preference;
  - e. software enabled to add said particular player to a waitlist for said poker game type preference if no matching table is currently available;
  - f. software enabled to display indicia identifying said particular player on a public waitlist display, said public display including the display of information comprising at least two different poker game types and waiting players for each game type and wherein said display is suitable for viewing by a multiplicity of players or prospective players throughout the poker room;
  - g. software enabled to select said particular waiting player for an available table matching said waiting player's selected game type when it is available and then assigning said player to that available table;
  - h. software enabled to receive check-out input regarding said particular player containing player identification information; wherein said software is configured to identify the particular player from the player check-out input information, to remove the player from the game and from the table, to update the table availability to reflect that a seat for the particular poker game type at said table is currently available;
  - i. software enabled to calculate the total elapsed time between receiving the check-in input and the check-out input of the particular player, wherein said software is configured to store the calculated playing time of said particular player in at least one of the system database or the player database;
- j. wherein all of the said software is enabled to operate as a synchronized system.
28. The system of claim 27, further comprising the capability to display players on the publicly viewable waitlist via unique identifiers.
29. The system of claim 27, further comprising the capability to assign and track players to and at particular seats at the assigned table.

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30. The system of claim 27, further comprising the capability for casino staff to override the automatic table assignment and assign the player to a table manually.

31. The system of claim 27, further comprising must move capability.

32. The system of claim 27, further comprising lock up capability.

33. The system of claim 27, further comprising reserve player capability.

34. The system of claim 27, further comprising web connector capability.

35. The system of claim 27, further comprising software which is enabled to provide functionality for associating the poker player information stored in said database with another remote database that is not stored in said physical casino.

36. The system of claim 27, further comprising software which is enabled to provide functionality to allow players to sign up for games via the internet.

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37. The system of claim 27, further comprising software which is enabled to provide functionality to allow players to check their information stored in the database via the internet.

38. The system of claim 27, further comprising software which is enabled to provide functionality to allow players to initially register for a player's card via the internet.

39. The system of claim 27, further comprising software which is enabled to provide functionality to allow players to initially register for a player's card via a kiosk.

40. The system of claim 27, further comprising software which is enabled to provide functionality of active dealer display.

41. The system of claim 27, further comprising a compensation system associated with said system database or player database.

42. The system of claim 27, further comprising rollover functionality.

\* \* \* \* \*

**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 Cormac J. Carney and the assigned discovery Magistrate Judge is Robert N. Block.

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

**SACV13- 426 CJC (RNBx)**

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

=====

**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  
300 South Grand Avenue, 26th Floor  
Los Angeles, California 90071  
Tel: (213) 485-1550  
Fax: (213) 485-1200

Plaintiff AMERANTH, INC.

UNITED STATES DISTRICT COURT  
CENTRAL DISTRICT OF CALIFORNIA

AMERANTH, INC., a Delaware corporation,

PLAINTIFF(S)

v.

GENESIS GAMING SOLUTIONS, INC., a Texas corporation, IT CASINO SOLUTIONS LLC, a California limited liability company, EL DORADO ENTERPRISES, INC, dba HUSTLER CASINO, a California corporation, CALIFORNIA COMMERCE CLUB, INC., dba COMMERCE CASINO, a California corporation, Hawaiian Gardens Casino, a California corporation & DOES 1-10, inclusive,

DEFENDANT(S).

CASE NUMBER

SACV13-426 CJC(RNBx)

SUMMONS

TO: DEFENDANT(S)

A lawsuit has been filed against you.

Withiny 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 South 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: \_\_\_\_\_

MAR 13 2013

By: NANCY INTERIANO  
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**

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)

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
IT Casino Solutions, LLC - Orange County California Commerce Club, Inc., - L.A. County Hawaiian Gardens Club - L.A. County El Dorado Enterprises dba Hustler - L.A. County	Genesis Gaming Solutions, Inc. - Harris County, Texas

(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: 3/12/13

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))