

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF PENNSYLVANIA**

CASE MANAGEMENT TRACK DESIGNATION FORM

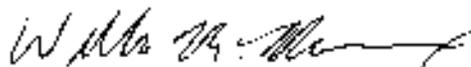
JOHN GAMING	:	CIVIL ACTION
	:	
v.	:	
	:	
VERIZON COMMUNICATIONS, INC., ET AL.	:	NO.

In accordance with the Civil Justice Expense and Delay Reduction Plan of this court, counsel for plaintiff shall complete a Case Management Track Designation Form in all civil cases at the time of filing the complaint and serve a copy on all defendants. (See § 1:03 of the plan set forth on the reverse side of this form.) In the event that a defendant does not agree with the plaintiff regarding said designation, that defendant shall, with its first appearance, submit to the clerk of court and serve on the plaintiff and all other parties, a case management track designation form specifying the track to which that defendant believes the case should be assigned.

SELECT ONE OF THE FOLLOWING CASE MANAGEMENT TRACKS:

- (a) Habeas Corpus -- Cases brought under 28 U.S.C. §2241 through §2255. ()
- (b) Social Security -- Cases requesting review of a decision of the Secretary of Health and Human Services denying plaintiff Social Security Benefits. ()
- (c) Arbitration -- Cases required to be designated for arbitration under Local Civil Rule 8. ()
- (d) Asbestos -- Cases involving claims for personal injury or property damage from exposure to asbestos. ()
- (e) Special Management -- Cases that do not fall into tracks (a) through (d) that are commonly referred to as complex and that need special or intense management by the court. (See reverse side of this form for a detailed explanation of special management cases.) (X)
- (f) Standard Management -- Cases that do not fall into any one of the other tracks. ()

October 6, 2003
(Date)



Attorney-at-law

W. Mark Mullineaux

Attorney for Plaintiff

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF PENNSYLVANIA**

JOHN R. GAMMINO

Plaintiff

v.

VERIZON COMMUNICATIONS, INC.,

VERIZON PENNSYLVANIA, INC.,
VERIZON NEW JERSEY, INC.,
VERIZON NEW YORK, INC.,
VERIZON DELAWARE, INC.,
VERIZON CALIFORNIA, INC.,
VERIZON FLORIDA, INC.,
VERIZON HAWAII, INC.,
VERIZON MARYLAND, INC.,
VERIZON VIRGINIA, INC.,
VERIZON WASHINGTON DC, INC.,
VERIZON WEST VIRGINIA, INC.,
VERIZON NEW ENGLAND, INC.,
VERIZON NORTH, INC.,
VERIZON NORTHWEST, INC.,
VERIZON SOUTH, INC.,

GTE SOUTHWEST, INC.,
DBA VERIZON SOUTHWEST,
CONTEL OF THE SOUTH, INC.,
DBA VERIZON MID-STATES
GTE MIDWEST, INC.
DBA VERIZON MIDWEST,
PUERTO RICO TELEPHONE CO., INC.,

Defendants

CIVIL ACTION NO.

JURY TRIAL DEMANDED

COMPLAINT

Plaintiff, John R. Gammino, ("Mr. Gammino") by his attorneys, Flamm, Boroff & Bacine, P.C., makes this Complaint against Defendants, Verizon

Communications, Inc., and all of the above-captioned subsidiaries of Verizon Communications, Inc.

PARTIES

1. Plaintiff, John R. Gammino, is an adult individual and a resident of the State of Florida and operates his patent licensing business out of the Commonwealth of Pennsylvania.

2. Defendant Verizon Communications, Inc. is a corporation organized and existing under the laws of the State of Delaware with a regular and established place of business at 1515 Market Street, Suite 1210, Philadelphia, PA 19102.

3. The following Defendants are subsidiaries of Verizon Communications, Inc. and they are incorporated under the laws of the States listed below with registered offices listed below:

<u>Corporate Name</u>	<u>Incorporated</u>	<u>Registered Office</u>
Verizon New Jersey, Inc.	NJ	c/o Bruce D. Cohen 540 Broad Street, 20 th Floor Newark, NJ 07102-3178
Verizon Pennsylvania, Inc.	PA	1717 Arch Street, 32 nd Floor Philadelphia, PA 19103
Verizon New York, Inc.	NY	c/o CT Corporation System 111 Eighth Avenue New York, NY 10011
Verizon Delaware, Inc.	DE	c/o The Corporation Trust Company Corporation Trust Center 1209 Orange Street Wilmington, DE 19801

<u>Corporate Name</u>	<u>Incorporated</u>	<u>Registered Office</u>
Verizon California, Inc.	CA	c/o CT Corporation System 818 West Seventh Street Los Angeles, CA 90017
Verizon Florida, Inc.	FL	c/o CT Corporation System 1200 South Pine Island Road Plantation, FL 33324
Verizon Hawaii, Inc.	HI	c/o Warren H. Haruki 1177 Bishop Street Honolulu, HI 96813
Verizon Maryland, Inc.	MD	c/o Robert D. Lynd 1 East Pratt Street Constellation Place Baltimore, MD 21202
Verizon Virginia, Inc.	VA	c/o Robert W. Woltz, Jr. 600 E. Main Street, Suite 1100 Richmond, VA 23219
Verizon Washington DC, Inc.	NY	c/o CT Corporation System 111 Eighth Avenue New York, NY 10011
Verizon West Virginia, Inc.	WV	c/o Gale Y. Given 1500 MacCorkle Avenue Charleston, WV 25314
Verizon New England, Inc.	NY	c/o CT Corporation System 111 Eighth Avenue New York, NY 10011
Verizon North, Inc.	WI	c/o CT Corporation System 8025 Excelsior Drive, Suite 200 Madison, WI 53717
Verizon Northwest, Inc.	WA	c/o CT Corporation System 520 Pike Street Seattle, WA 98101

<u>Corporate Name</u>	<u>Incorporated</u>	<u>Registered Office</u>
Verizon South, Inc.	VA	c/o Commonwealth Legal Services Corporation 4701 Cox Road, Suite 301 Glen Allen, VA 23060-6802
GTE Southwest, Inc. d.b.a. Verizon Southwest	DE	c/o The Corporation Trust Company Corporation Trust Center 1209 Orange Street Wilmington, DE 19801
Puerto Rico Telephone Co., Inc.	PR	c/o Joaquin Marquez 1500 "K" Street NW Suite 1100 Washington, DC 20005-1209
Contel of the South, Inc. d.b.a. Verizon Mid-States	GA	c/o CT Corporation System 1201 Peachtree Street NE Atlanta, GA 30361
GTE Midwest, Inc. d.b.a. Verizon Midwest	DE	c/o The Corporation Trust Company Corporation Trust Center 1209 Orange Street Wilmington, DE 19801

The above-listed subsidiary corporations at times are collectively referred to herein as "Verizon Subsidiaries." Further, Verizon Subsidiaries together with Verizon Communications, Inc., at times are collectively referred to herein as "Verizon."

JURISDICTION AND VENUE

4. This Court has jurisdiction over the subject matter of this action pursuant to the provisions of 28 U.S.C. §§ 1331 and 1338, in that the claims in this action arise under the Patent Act of the United States, 35 U.S.C. §101 et seq.

5. Venue in the Eastern District of Pennsylvania is proper pursuant to (a) 28 U.S.C. §1391(b)(2) in that a substantial part of the events or omissions giving rise to the claim occurred in this district; and (b) 28 U.S.C. §1400(b) in that this is a civil action for patent infringement and each Defendant either (i) resides in this judicial district, (ii) committed acts of infringement in this judicial district, and/or (iii) has a regular and established place of business in this judicial district, including Defendants that have established a place of business and/or infringed in this district by operating in concert with the other Defendants or operating as one functioning entity with the other Defendants.

6. This Court has jurisdiction over Verizon Communications, Inc. and the Verizon Subsidiaries and venue is proper because Verizon Communications, Inc. and the Verizon Subsidiaries, operating either in concert or effectively as one functioning entity regularly conduct business in Pennsylvania and this judicial district by providing services to its customers situated therein and elsewhere. It is these services, provided by Verizon Communications, Inc. and the Verizon Subsidiaries, which serve as the basis for the patent infringement claim against Verizon Communications, Inc. and the Verizon Subsidiaries in this Complaint.

7. As an example of Verizon Communications, Inc. and the Verizon Subsidiaries effectively acting as one functioning entity, when a customer receives a bill for services for a phone in Pennsylvania, the customer does not receive a bill from the subsidiary defendant, Verizon Pennsylvania, Inc. but receives a bill from "Verizon."

8. In addition, Verizon Communications, Inc. and the Verizon Subsidiaries interact and conduct business with the public over the Internet on its Website (www.verizon.com) (the "Verizon Website"), which engages the residents of this judicial district in business and consumer transactions. Through the Verizon Website, residents of the Commonwealth of Pennsylvania and this judicial district contract regularly and directly with "Verizon" without reference to any of the subsidiaries that may provide the actual service. In fact, upon information and belief, in order to purchase services from any of the Verizon Subsidiaries online, a Pennsylvania customer would be compelled to visit the Verizon Website. In other words, a Pennsylvania resident, situated in this judicial district has the ability to contract directly with Verizon or any of the Verizon Subsidiaries listed above without ever leaving the jurisdiction, simply by typing www.verizon.com into the computer keyboard. This active solicitation by Verizon and the Verizon Subsidiaries indicates that Verizon has intentionally targeted the Commonwealth of Pennsylvania and this judicial district and tailored its services to the needs of the residents situated therein. Additionally, the potentially thousands of contracts that are formed over the Verizon Website on a daily basis provide evidence that Verizon Communications, Inc. and all of the Verizon Subsidiaries have continuous and systematic contacts with the Commonwealth of Pennsylvania and this judicial district.

9. Moreover, all Verizon Subsidiaries have customers who use phone services of that subsidiary to make telephone calls into Pennsylvania. At least subsidiaries Verizon Pennsylvania, Inc. and Verizon North, Inc. have customers

situated in Pennsylvania who use the phone services in Pennsylvania, and all Verizon Subsidiaries operate "switches" which have an impact on calls in and out of Pennsylvania. Also, the Verizon Subsidiaries sell mobile phones, which are used in Pennsylvania and the use in Pennsylvania is serviced by Verizon Subsidiaries.

BACKGROUND FACTS AND INVENTION

10. In this country, there had been a major problem of people making fraudulent international telephone calls on payphones and other devices. That fraud led to losses of billions of dollars to telecommunications companies.

11. The international pay phone fraud escalated in the early 1990s after the FCC pursuant to new federal law prohibited Verizon and others from blocking access codes that permit the consumer to reach the operator service provider of the consumer's choice. Once the access codes were unblocked in payphones and at certain other locations, the fraudulent use of payphones for international calls skyrocketed. At certain payphone sites, losses due to international calls were reaching an average of \$1,500 a month per phone. Fortunately, Mr. Gammino invented a solution that prevents that fraud.

12. In 1991, the Port Authority of New York and New Jersey (the "Port Authority") had massive fraud problems with international calls on payphones, particularly at the Port Authority Bus Terminal in New York City. The Port Authority brought in major phone companies including New York Telephone (which is now part of Verizon and will be referred to herein as "Verizon") to solve the problem. Verizon could not solve the Port Authority's fraud problem. The

Port Authority said that, "New York Telephone (now Verizon) and others were telling us that a solution to our problem was not technically possible." See Declaration of Ken Philmus of the Port Authority, dated April 2, 1994, attached as Exhibit "A," at pages 2-3.

13. In 1991, John Gammino was hired by the Port Authority to try and do what no one else could do – stop the fraud.

14. Mr. Gammino virtually eliminated international payphone fraud at the Bus Terminal. The solution invented by Mr. Gammino comprises an algorithm that can distinguish international calls from other types of calls and can selectively block international calls (the "Solution"). The Solution received extensive and positive press coverage in 1992 and 1993. More specifically, a leading publication in the industry, Public Communications Magazine, in May 1993 recognized that it was Mr. Gammino's Solution that solved the problem. Other press reports also recognized Mr. Gammino's solution to the Port Authority's fraud problem.

15. The Port Authority recognized Mr. Gammino's Solution when it said the following in a letter to Mr. Gammino:

[T]he telephone hustler problem has been virtually eliminated at the Bus Terminal due to the technological changes you [Mr. Gammino] were able to have implemented. This problem had been plaguing us for several years and we were frustrated by the lack of a technological solution.

See Port Authority letter of July 28, 1992, attached as Exhibit "B". (Emphasis supplied).

16. Only Mr. Gammino solved the fraudulent international payphone problem while the telecommunications giants, including Verizon, could not solve the problem.

17. In 1992, Mr. Gammino's Solution was placed into all of the payphones at the Bus Terminal, including those owned by Verizon.

PATENTS

18. Mr. Gammino filed for patent protection for the Solution, which ultimately resulted in U.S. Patent No. 5,809,125 ("the '125 Patent") being duly and legally issued to Mr. Gammino on September 15, 1998, and U.S. Patent No. 5,812,650 ("the '650 Patent") being duly and legally issued to Mr. Gammino on September 22, 1998 (collectively, the "Gammino Patents"). Copies of the Gammino Patents are attached hereto, made a part hereof, and marked as Exhibits "C" and "D", respectively. Hereinafter, for the time period after September 15, 1998, the Solution shall be referred to as the "Patented Solution."

19. The '125 Patent and '650 Patent relate to methods and apparatus for preventing potentially fraudulent international telephone calls.

20. A telephone call is initiated by dialing a sequence of digits. Each dialing sequence is made up of a "plurality" of dialing signals. A plurality is a set of two or more signals. For example, someone might dial "101-0288-011-41-21-619-0670" to attempt an international call using AT&T as the carrier (AT&T's code is 0288). For this example in that call, the first plurality (or set) could be 101 which is an access code to provide access to carriers, the second plurality could be 0288 which is a code identifying AT&T as the carrier desired, and the

third plurality could be 011 which is a code that indicates that the call is a direct dialed international call. As additional examples, the plurality of dialing signals are further shown in the following fomulas (X is a "don't care"¹ value):

101 First plurality of dialing signals	XXXX Second plurality of dialing signals	011 Third plurality of dialing signals
950 First plurality of dialing signals	XXXX Second plurality of dialing signals	011 Third plurality of dialing signals
1-800 First plurality of dialing signals	XXX-XXXX Second plurality of dialing signals	011 Third plurality of dialing signals

As an example, in at least one of the claims of the '125 or '650 Patents a call is blocked if, inter alia, the first plurality of dialing signals are determined to be predetermined signals and the third plurality of dialing signals are determined to be predetermined signals used for international dialing.

COUNT I

PATENT INFRINGEMENT OF UNITED STATES PATENT NO. 5,809,125

21. The averments in paragraphs 1 through 20 above are incorporated herein by reference.

22. In 1992, Verizon received Mr. Gammino's Solution and Verizon put the Solution in its payphones.

¹ "Don't care" value means that, for purposes of determining whether to block a call, it does not matter what the value is in that position. Of course, a caller and a carrier like AT&T care about the "don't care" values for other purposes, such as identifying the carrier.

23. Verizon Communications, Inc. and Verizon Subsidiaries have used and continue to use Mr. Gammino's Patented Solution across the United States in order to prevent fraudulent international telephone calls, resulting in millions of dollars in savings.

24. Verizon Communications, Inc. and the Verizon Subsidiaries offer the Patented Solution for a profit and collect revenues from others in connection with the deployment of the Patented Solution in pay phones and other devices.

25. Verizon is using the methods in the claims of '125 Patent and '650 Patent in its payphones, network switches, PBX lines, Centrex lines, Business Exchange lines and other lines. Further, there is probable cause to believe that Verizon is using the Patented Solution with its wireless phones and that belief will be confirmed in discovery. Verizon's use of the claims of the Gammino Patents is massive.

26. In a letter dated April 16, 1992 (Exhibit "E") from Verizon to the Port Authority, Verizon said it would implement international call blocking. Verizon stated:

"In developing software that will block specific international calls, we propose to screen the following All Calls Dialed (sic):

10xxx - 01
950-10xx-01
1800 - xxx - xxxx - 01
800 - xxx - xxxx - 01
950 - 10xx - 809
1800 - xxx - xxxx - 809
800 - xxx - xxxx - 809

See Exhibit "E"

27. After Verizon sent its letter of April 16, 1992 (Exhibit E), Verizon used some or all of the formulas in that letter.

28. The formulas in Verizon's letter of April 16, 1992 have a first plurality of predetermined dialing signals and a third plurality of dialing signals that are predetermined signals used for international dialing. This is demonstrated by the formula of 10xxx-01 with 10 being the first plurality of predetermined dialing signals and with 01 being the third plurality of dialing signals that are predetermined signals used for international calls.

29. In filed FCC tariffs, Verizon has disclosed it offers an International Direct Dial Blocking Service. That service is used to block any attempt to dial the international direct dial sequence of 011+ or 101xxxx011+. In one of those tariffs, Verizon reports that:

This arrangement recognizes and blocks, by routing such calls to a recorded announcement, any attempt to dial international direct dialed sequences of 011+ or 101xxxx 011+.

See Exhibit "F", Verizon Tariff FCC No. 11, original page 13-18.

30. Verizon's tariff formula of 101xxxx-011 has a first plurality of predetermined dialing signals (101) and a third plurality of dialing signals that are predetermined signals used for international dialing (011).

31. Verizon infringed the '125 Patent and '650 Patent with its international direct dial blocking service.

32. Recent onsite testing of Verizon payphones by using the dialing sequences has confirmed that Verizon still blocks international calls by using the Patented Solution.

33. As a result of the foregoing conduct, Verizon Communications, Inc. and the Verizon Subsidiaries infringe one or more of the claims of the '125 Patent under 35 U.S.C. §271(a) and have caused Mr. Gammino damages as a direct and proximate result thereby. Verizon Communications, Inc. and the Verizon Subsidiaries are jointly and severally liable to Mr. Gammino for all damages suffered by Mr. Gammino as a result of the infringement of the '125 Patent including lost income, profits, and/or royalties, the elimination and/or reduction of business opportunities, market erosion, and other damages.

34. Based upon Verizon's own data concerning the number of its public lines, the fact that all of those lines have international call blocking, and what Verizon charges its customers for that service, Mr. Gammino's damages for Verizon's infringement of both the '125 Patent and '650 Patent include, but are not limited to, the loss of \$66,168,352 in royalty fees resulting from Verizon's use of the Patented Solution in 486,532 public lines ("Public Line Use Damages"). Mr. Gammino's damages further include the loss of millions of dollars in royalty fees resulting from Verizon's use of the Patented Solution in some portion of its more than 19 million business lines and in some portion of its more than 36 million residential lines, plus royalty fees that are due in the event that Verizon uses the Patented Solution with wireless phones or with any other service.

COUNT II

PATENT INFRINGEMENT OF UNITED STATES PATENT NO. 5,812,650

35. The averments in paragraphs 1 through and including 34 above are incorporated herein by reference

36. The actions of Verizon Communications, Inc. and the Verizon Subsidiaries as set forth above constitute infringements of one or more of the claims of the '650 Patent under 35 U.S.C. §271(a) and have caused Mr. Gammino damages as a direct and proximate result thereby. Verizon Communications, Inc. and the Verizon Subsidiaries are jointly and severally liable to Mr. Gammino for all damages suffered by Mr. Gammino as a result of the infringement of the '650 Patent including lost income, profits, and/or royalties, the elimination and/or reduction of business opportunities, market erosion, the Public Line Use Damages, and other damages.

COUNT III

INDUCEMENT TO INFRINGE OF UNITED STATES PATENT NO. 5,809,125

37. The averments set forth in paragraphs 1 through 36 above are incorporated herein by reference.

38. The actions of Verizon Communications, Inc. and Verizon Subsidiaries as set forth above constitute an active inducement to infringe the '125 Patent under 35 U.S.C. §271(b) and have caused Mr. Gammino damages as a direct and proximate result thereby. Verizon Communications, Inc. and the Verizon Subsidiaries are jointly and severally liable to Mr. Gammino for all damages suffered by Mr. Gammino as a result of the infringement of the '125 Patent including lost income, profits, and/or royalties, the elimination and/or reduction of business opportunities, market erosion, the Public Line Use Damages, and other damages.

COUNT IV

**INDUCEMENT TO INFRINGE OF UNITED STATES
PATENT NO. 5,812,650**

39. The averments set forth in paragraphs 1 through 38 above are incorporated herein by reference.

40. The actions of Verizon Communications, Inc. and Verizon Subsidiaries as set forth above constitute an active inducement to infringe the '650 Patent under 35 U.S.C. §271(b) and have caused Mr. Gammino damages as a direct result and proximate result thereby. Verizon Communications, Inc. and the Verizon Subsidiaries are jointly and severally liable to Mr. Gammino for all damages suffered by Mr. Gammino as a result of the infringement of the '650 Patent including lost income, profits, and/or royalties, the elimination and/or reduction of business opportunities, market erosion, the Public Line Use Damages, and other damages.

WHEREFORE, Plaintiff John R. Gammino prays:

(a) that Verizon Communications, Inc. and the Verizon Subsidiaries be adjudged to have infringed United States Letters Patent No. 5,809,125;

(b) that Verizon Communications, Inc. and the Verizon Subsidiaries be adjudged to have infringed United States Letters Patent No. 5,812,650;

(c) that Verizon Communications, Inc. and the Verizon Subsidiaries, their respective officers, agents, servants, employees and attorneys, and those persons in active concert or participation with them who

receive actual notice of the Order, be preliminarily and permanently enjoined from infringing United States Letters Patent No. 5,809,125:

(d) that Verizon Communications, Inc. and the Verizon Subsidiaries, their respective officers, agents, servants, employees and attorneys, and those persons in active concert or participation with them who receive actual notice of the Order, be preliminarily and permanently enjoined from infringing United States Letters Patent No. 5,812,650;

(e) that Verizon Communications, Inc. and the Verizon Subsidiaries account for damages to John R. Gammino for its infringement of United States Letters Patent No. 5,809,125;

(f) that Verizon Communications, Inc. and the Verizon Subsidiaries account for damages to John R. Gammino for its infringement of United States Letters Patent No. 5,812,650;

(g) that the damages in this judgment be trebled in accordance with 35 U.S.C. §284 for the willful and deliberate infringement of United States Letters Patent No. 5,809,125;

(h) that the damages in this judgment be trebled in accordance with 35 U.S.C. §284 for the willful and deliberate infringement of United States Letters Patent No. 5,812,650;

(i) that John R. Gammino be awarded punitive and exemplary damages against Verizon Communications, Inc. and the Verizon Subsidiaries;

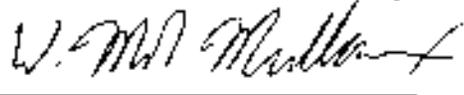
(j) that an assessment be awarded to plaintiff of interest on the damages so computed;

(k) that the Court declare this case exceptional and award John R. Gammino his reasonable attorney fees and costs pursuant to 35 U.S.C. §285: and

(l) that John R. Gammino receive such other and further relief as this Honorable Court shall deem just and proper.

JURY TRIAL DEMANDED

FLAMM, BOROFF & BACINE, P.C.

BY: 

W. MARK MULLINEAUX
Attorney I.D. No. 40964
RICHARD J. JOYCE
Attorney I.D. No. 85520
925 Harvest Drive, Suite 220
Blue Bell, PA 19422
(215) 239-6000

Attorneys for Plaintiff

EXHIBIT A

GAM 012

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joan R. Jamming : App No: 08/126,820
Serial No.: 08/126,820 : Examiner: A. Matar
Filed: January 29, 1994 :
FOR: METHOD AND APPARATUS FOR :
INTERCEPTING POTENTIALLY :
FRAUDULENT TELEPHONE CALLS :

EXPLANATION TO CLAIM 111

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20535

S I R :

I, Tom Whelan, SR Manager of the Port Authority Bus Terminal located in New York City. I was previously Program Director of the Comprehensive Improvement Program of the Port Authority Bus Terminal. I have held these positions for over two years.

When I came to the Port Authority Bus Terminal, one of the most difficult and seemingly insolvable problems facing us was international pay telephone fraud. The problem has existed and remained unresolved for years (See New York Times, Phone Codes; Newest Stop on the Street, May 18 1987, Section A, Page 1, Column 1). The bus terminal had unfortunately become one of, if not the, primary retail center in New York City for criminals to offer lengthy international telephone calls to the general public for minimal prices. These calls were made through our extensive pay telephone system at the bus

GAM-012

2

terminal with stolen credit card numbers. The problem, however, went much deeper than simply having to cope with this scam. Despite having over a hundred and fifty pay phones in the terminal, our legitimate customers were finding it almost impossible to gain access to a phone when needed. Even worse, a very significant amount of collateral crime was developing related to the international scam as disputes arose between the victims of the illegal service and their customers.

Because police action was proving ineffective and costly for solving this problem, we requested the cooperation of several telecommunications companies in order to assist us. For example, we discussed this problem at a meeting attended by long distance service providers which took place during the fall of 1991 (see letter from me to John Gurnier of February 13, 1991). As you can see, the attendees included representatives from AT&T, Sprint, MCI, and New York Telephone. Despite their technical expertise, none of the companies represented at that meeting were able at the time to develop a solution to the telephone fraud problem which we were experiencing.

This is not to say that the companies did not try. For example, as shown by the internal memorandum (dated February 17, 1992) between myself and Ed Warker (Police Deputy Inspector), an agreement was reached with AT&T to block direct international calling from our facility's pay phones. However, this proved to be only a very temporary solution as the scammers utilized access to other long distance carriers, such as MCI and Sprint to make their way around AT&T. Furthermore, New York

CSX-012

- 2 -

Telephone and others were telling us that a solution to our problem was not technically possible.

What we finally did adopt, as requested in the March 23, 1992 letter from Janis Reitzer to Thomas Peterson, was the development of software that will block international calls while permitting interstate and intrastate calls when the user dials 10XXX, 910 or 800 to reach an interstate carrier. Specifically, as indicated by that letter, we wanted the following sequences of digits to be recognized and answered.

- a) 10XXX 01
- b) 950-10XX 11
- c) 1 800-XXX XXXX-01.

This solution was recommended to us by John Garrino.

Within two days of the implementation of John Garrino's solution on our telephones (and without any other changes at the bus Terminal), the door literally disappeared from the building (see letter from Janis Reitzer to John Garrino of July 28, 1992). We have regained control of our terminal's payphones. Our commuter customers can now get to pay phones to make legitimate calls.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like

GAM-017

- 1 -

so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application -- any patent which may issue therefrom.

Respectfully Submitted,

Robert J. Lind
Manager, Port Authority Bus Terminal
625 Eighth Avenue
New York, New York 10018
(212) 512-2472

Date

RLJ/sb
Enclos: Letters of 5/10/87, 3/11/91 & 11/29/91, & 05/92
Memorandum & List of Addresses

Dated: April 25, 1994

500 N. Guilph Road
P.O. Box 989
Valley Forge, PA 19480
(610) 265-5556

Version of 10/15/97 11:23:07 AM - 0440 PAGES

PAGE 11

*3 items
from
gateway back
of*

1ST STORY of Level 1 printed in FULL format.

Copyright (c) 1997 The New York Times Company
The New York Times

May 12, 1997, Tuesday, Late City Final Edition

(1)

SECTION: Section A; Page 1, Column 1; Metropolitan Desk

LENGTH: 1281 words

HEADLINE: PHONE COPS: NEWEST SCAM ON THE STREET

BYLINE: By ROBERT L. McFADDEN

BODY:

At bus and rail terminals and other places of anonymity in cities across the country, a new breed of hustler has made an appearance as the point man of a fast-growing, multimillion-dollar scam selling illicit long-distance telephone calls.

With the aggressive, sometimes faintly solicitous prodding of hustlers who sell sex and drugs, these high-tech vagabonds seek out prospective customers at banks of pay telephones with offers of calls of unlimited duration at black-market rates.

At the Port Authority Bus Terminal in midtown Manhattan, hustlers charge \$2 for calls anywhere in the country and as little as 14 for calls almost anywhere in the world. The hustlers do the dialing, using billing codes stolen from long-distance telephone companies by computer hackers and distributed through loose networks of middlemen in much the same way that drugs are trafficked.

The best customers are immigrants, shady entrepreneurs and others who know it is a crime but find it hard to resist when they call cheap, reliable, no-frills telephonic service. Like patrons of a drug pusher, they wait for the hustlers, furtively buy calls and speak for hours to faraway relatives, friends and business associates.

"It's a serious business for all the telephone companies, including us," said John Houser, a spokesman for the MCI Telecommunications Corporation, one of the long-distance companies that have arisen in recent years since the breakup of the American Telephone and Telegraph Company.

While total losses to the scam are unknown, experts say it amounts for a substantial portion of the nation's \$500 million annual cost of illegal calls. Long-distance companies - and indirectly the millions of clients who subscribe to them - are the victims. Neither the clients nor the recipients of calls are charged for fees because there is no proof they were aware the calls were made fraudulently, officials say.

Sophisticated Methods

Hundreds of phone hustlers have been arrested across the country, including 190 in New York City alone last year. But the police assign a low priority to catching them and their companies, despite aggressive trading efforts, have been overwhelmed by the volume of the calls and by the sophisticated methods of the hustlers.

Journal of the FBI 1987 20100371 JOK 00440 00000

F.B.I. 2010 7

(C) 1987 The New York Times, May 10, 1987

According to the Communications Fraud Control Association, an independent group formed by MCI, U.S. Sprint and AT&T in 1985 to fight crimes involving communications, the phone hustlers gravitate to the action - especially in cities with large immigrant populations.

Rasi S. Aburadden, the association's executive director, said the fraud had mushroomed in the last two years with the growth of long-distance telephone companies like MCI and U.S. Sprint, whose billing codes and interdependent dialing systems have been found particularly vulnerable by communications crooks.

Not Just 'Computer Whizzes'

The fraud usually begins with a computer hacker, and investigators say the culprits are not just the stereotypical goggles-eyed teenage white-kids playing around between sessions of Pac Man and Pole Position.

"Years ago," said Del Udrovski, the general counsel of U.S. Sprint, "we thought these were just computer whizzes. But now we're finding out there are housewives, doctors and lawyers who are hacking codes out of the system to sell."

Penetrating a telephone company's electronic files and extracting secret billing codes - the numbers it uses to determine who makes a call and when to bill - is a difficult but not insurmountable task for a hacker with a relatively simple program and a telephone-cable hookup.

To hackers, most billing codes are too much trouble to ferret out. Of MCI's eight million customers, for example, seven million use their home numbers as well as a four-digit suffix, so a hacker would have to crack a 14-digit code. But one million still make calls on an old system - slowly being phased out - using five-digit codes, and these are vulnerable.

How It's Done

The hacker has his computer call MCI, for example, using one of the seven-digit numbers that patrons normally call to gain access to a long-distance line. These access numbers are widely known among hackers. Once on a line, a hacker, like a legitimate customer, dials an area code and number, and then adds a five-digit billing code.

Each MCI access number is assigned 100,000 billing codes, and there are scores of access numbers in use around the country. This allows for millions of billing codes, only a fraction of which are in use. Other companies use different systems. U.S. Sprint, for example, has customers over the country dial a single access number from pay phones, followed by a nine-digit code for billing.

Legitimate customers each have a personal billing code, so the company knows who is calling and when to bill. Without a valid code, the telephone equipment will not put the call through. Hackers seeking billing codes set their computers searching for them.

Since there are only 100,000 combinations of five-digit numbers on each access line, a hacker just has his computer "brute" through the

LEXIS NEXIS LEXIS NEXIS

Services of FEB 17 1984... (faded)

PAGE 6

(C) 1987 The New York Times, May 13, 1987

possibilities, one after the other. When a call goes through, it means the computer has hit upon a valid billing code and the computer records it. Running the program a little while, investigators say, produces numerous codes.

The hacker sells the codes in batches to middlemen, usually people who are contacted through computer billboards services, and they are distributed to hustlers. The price for a single code is up to \$400, Mr. Krowowski said.

Hustlers must act fast to capitalize on their investment, for the life of a stolen code is short, perhaps only a few days. That is because the phone companies watch for any sudden surge in calls made on a code number. If the code's owner has not made the calls, the code is quickly discarded.

The hustlers' procedure is simple, as shown on a recent day at the Sore Authority Bus Terminal. After agreeing to a price, a customer gave a hustler the desired number and he dialed it, along with the telephone company's access number and a billing code.

When the party answering the hustler collected his money, handed over the receiver and left. When the call was over, he was back to offer another call. During one longer call, he had to summon a nearby "supervisor" to instruct him in dialing procedure. Long calls to California and Massachusetts were \$1 each, for \$4, calls were placed abroad for the West Indian Market, a man from Ecuador, several West Indians and several Americans.

Investigators said hustlers sometimes sold codes in their dying hours of usefulness. But such offers were suspect, they said, because surrendering valid codes only hastened their demise.

Because many long-distance companies are not equipped to reach all countries abroad, investigators say, it is sometimes necessary for a hustler to use a more complex method of patching a call through. This involves a confederate, often in another city, using special equipment to tap into an A.T.S.T. long-distance line to complete the call abroad.

These clandestine "operators," even used by a network of hustlers in various cities, also use stolen billing codes to complete calls.

Telephone companies say they are aggressive about tracking illegal calls, hackers who steal codes and clandestine operators.

But telephone companies competing for customers are reluctant to make billing code systems more complicated, and they are simply overwhelmed by the volume of illegal calls.

"There are a lot of entrepreneurs out there who want to create their own telephone companies," said Mr. Abumaden. "The way the system is set up now, they can do it."

SUBJECT: TELEPHONES; STATIONS AND TERMINALS (PASSENGER); FRAUDS AND SWINDLING; DATA PROCESSING

NAME: MCPADEN, ROBERT J

3

LEXIS-NEXIS LEXIS-NEXIS

FEB 17 1992 23:05PM JCH JCH AND REROJ

P.6

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

Port Authority
Bus Terminal

125 Eighth Avenue
New York, N.Y. 10036
(212) 426-7000
(212) 426-7000

February 13, 1992

John Richard Associates, Inc.
Management Consultants
24 Village Court
Haslet, NJ 07710

Attention: John R. Canino

Dear John,

Thanks for the excellent presentation last week to Dick Kelly and other Interstate Transportation Department senior staff. It was well received and I believe that we are on the right track.

By the time you receive this letter we will have scheduled a meeting with the Bus Terminal Police staff and Jan Seitzer to further go over local law enforcement concerns and issues.

[Attached you will find the list that Jan Seitzer provided. This was an attendance list for a meeting of long distance service providers and Bus Terminal staff. The meeting was held sometime during the late Fall of this past year. Also attached are my notes from our 1/7 meeting.]

Once again, thanks for the excellent presentation and I look forward to hearing from you regarding a date for your next update.

Sincerely,



Jan Seitzer
Program Director, BART
Comprehensive Improvement Plan

1sv

FEB 17 '54 2:18 PM JON CARD REPT

TEL NY TEL

Handwritten notes:
 [unclear]
 [unclear]
 [unclear]

<u>NAME</u>	<u>Company</u>	<u>#</u>
John Keizer	NY TEL - PUB COMM	502-2240
John F. Brown	Detective - NY PD	502-2521
Tommy Green	Telephone Resources (unpub comm)	212-997-2756
T. [unclear]	Publicans - NY TEL	718-348201
BOB SORENSEN	NY TEL - PUB COMM	212-960-4106
Bill Tracy	N.Y. TEL - SECURITY	212-325-6552
Gene Garry	ATT SECURITY	212 219 4919
YOUTH McKee	FCC	212 620-3437/8
LARRY Amaker	USSS	212/466-4400
John Anninos	US SP2IST	914 935-7426
Rocco R Spufflips	MCI	914-933-6212
Barry Benham	ATT	908-520-8221
Rich Petillo	ATT	908 520-8259
JAMES Romito	Port Authority Police	(212) 502-2369
THOMAS Ferrell	" " "	(212) 502-2508
Al Grant	LICI	914 251-2105
Patricia Gomez	LICI	914 251-2040

PORT AUTHORITY OF NEW YORK AND NEW JERSEY

MEMORANDUM

TO: Ed Forker
FROM: Ken Phillips
DATE: June 17, 1993
SUBJ: EFFORTS TO MINIMIZE LONG DISTANCE SCAMMING ON PABX PAYPHONES

CC: J. Beitzer

As we both noted yesterday there has been a virtual elimination of telephone scamming from the pay phones here at the Bus Terminal. So that all can fully understand where we are at present you requested an update on where we are and work yet to come.

PAST management, PANY Police and the Investigative Unit have long been frustrated with the problem of finding an effective way to deal with the selling of international calls here at the BT. Not only was this activity illegal in and of itself but it was also creating a significant amount of "collateral crime" that resulted from disputes at the phones and often was so prevalent as to make it difficult for legitimate customers to find an available phone when needed. An agreement was reached with AT&T to block direct international calling from the facility's pay phones but this proved to be only a very temporary solution as the scammers utilized access to other long distance carriers such as MCI and Sprint to make their way around AT&T. In addition, the scammers had developed methods for utilizing private voice mail systems and switchboards that allowed them to make international calls without directly using any of the long distance carriers. Clearly, a more comprehensive solution had to be found and since New York Telephone and others were telling us that at this point in time a solution was not technically possible. It was clear that the Port Authority would have to do some investigating of possible solutions on its own and this was made part of my charge as Director of the Comprehensive Improvement Program.

As part of an analysis of advanced telephone technology for the replacement of all Port Authority pay phones, 48 "smart" phones were installed at various locations throughout the Terminal. "Smart" phones are smart since they have advanced internal software which allows tremendous flexibility in monitoring and controlling what happens on the phones. A nationally recognized telephone consultant was retained to work with the Comprehensive Improvement Program team to advise us as to whether or not we could utilize these phones as a means to deal with the scamming here at the BT and also to help us encourage New York Telephone to develop their own solution. In cooperation with the manufacturer of the "smart" phones, the consultant was able to develop a test solution that blocked all international calls made through the use of stolen credit cards as well as through the use of private switchboards. This change has been in place for well over a month at the BT on all phones that show "TUG" as the manufacturer and appears to be completely successful.

During this same time period, a Request for Proposals for pay telephone service at all Port Authority facilities was being developed. Since we now know that there was a solution that could work, we took the step to include international calling fraud prevention at the PABT as a requirement to all bidders desiring to provide pay phones for all Port Authority facilities. It was at this point in time that New York Telephone indicated that they too had now developed a method for dealing with this problem and would begin installing it on the 200 phones in the Terminal that were theirs. Our consultant will be immediately evaluating the effectiveness of their proposal and we sincerely hope it will work as well as the blocking we now have on the "TCS" phones. The change to the New York Telephone pay phones at the BT should be completed by the end of next week. Assuming it is as effective as New York Telephone claims, we will then have fully blocked the scamming from within the building.

Needless to say, we all know that the scammers are a resourceful bunch and will likely be seeking out new ways to maintain what has been a very lucrative livelihood. As such, we have received Board authorization to have the telephone consultant immediately available to us should the problem resurface in some new form. It's working for now and we are all particularly pleased that New York Telephone is implementing a solution of their own throughout the city at selected locations in addition to the PABT. Perhaps this will put a damper on this business as a whole. There is a small down side, however, to both the New York Telephone and "smart" phone solutions in that legitimate international calls will not be able to be made from within the building. Furthermore, BT customers will also be unable to access their corporate voice mail systems or dial up beepers. Per other discussions we've had, the loss of beeper capability also has an up side as well.

Rest assured that Comprehensive Improvement and our consultant will continue to keep a very close watch on the situation. If you, or anyone on your staff notices a degradation in the situation please let me know right away so we can deal with it as quickly as possible.



Ken Philmus
Program Director, PABT
Comprehensive Improvement

THE PORT AUTHORITY OF NY & NJ

Port Authority
Bus Terminal

525 E. 97th Avenue
New York, N.Y. 10016
(212) 502-3333

July 26, 1992

Mr. John Gammie
John Richard Associates, Inc.
24 Village Court
Hazlet, N.J. 07733

Dear John:

As you are aware the telephone bustler problem has been virtually eliminated at the Bus Terminal due to the technological changes you were able to have implemented. This problem had been plaguing us for several years and we were frustrated by the lack of a technological solution.

Your work with Ken Philips and the Comprehensive Improvement Program was done effectively and in a short timeframe enabling us to see quick improvement.

I appreciate your fine work and expertise and wish you continued success.

(Signature)
James H. Bellizzi
Manager
Port Authority Bus Terminal

JMB/lb

CC: K. Philips

EXHIBIT B

THE PORT AUTHORITY

Port Authority
& Terminal

July 28, 1992

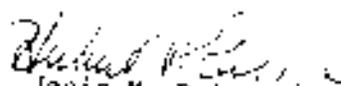
Mr. John Gammino
John Richard Associates, Inc.
24 Village Court
Hazlet, N.J. 07730

Dear John:

As you are aware the telephone hustler problem has been virtually eliminated at the Bus Terminal due to the technological changes you were able to have implemented. This problem had been plaguing us for several years and we were frustrated by the lack of a technological solution.

Your work with Ken Philmus and the Comprehensive Improvement Program was done effectively and in a short timeframe enabling us to see quick improvement.

I appreciate your fine work and expertise and wish you continued success.


(2) Janis M. Scitzer
Manager
Port Authority Bus Terminal

JMB/lb

CC: K. Philmus

EXHIBIT C

5,809,125

Page 7

OTHER REFERENCES

FCC Order, *Block (in the Matter of Policies and Rules Governing Operator Service Access to Pay Telephone Compensated Release)*, 3, 1998.

"The Brave New World of TSP Fraud," *Karat Release Compensation Journal*, (Mar. 97), vol. 1, No. 2, pp. 14-20 by David Reiter.

"NATO Offers Probe of Japanese 'N-Dong' Issue," *Abolition of Voice Technology News*, (Jan. 20, 92), vol. 1, No. 14.

Mark RHOE Wants to Halt FCC Effort to Impose International Call Blocking", *Communications Daily*, (Mar. 14, 1998).

"American Public Communications Council (APCC) Has Asked FCC's Common Carrier Week (Jan. 18, 1997).

Newsletter Published by Global Publications, and Intelligent Network News; 4 May 92, vol. 1, No. 5 entitled "Independent Soft Network Growth Predicted".

FCC Catalog for CC-104281, "Programs and Other Control for the Service Call Control System".

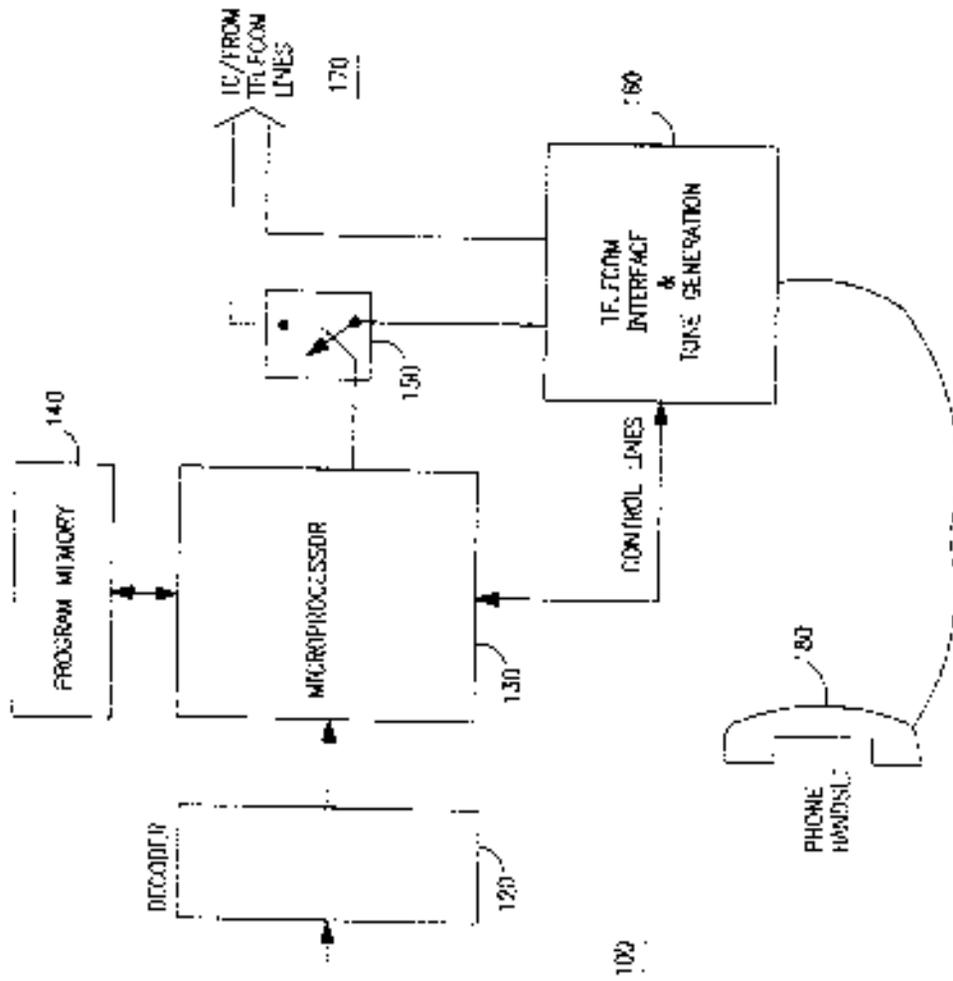


FIG. 1A

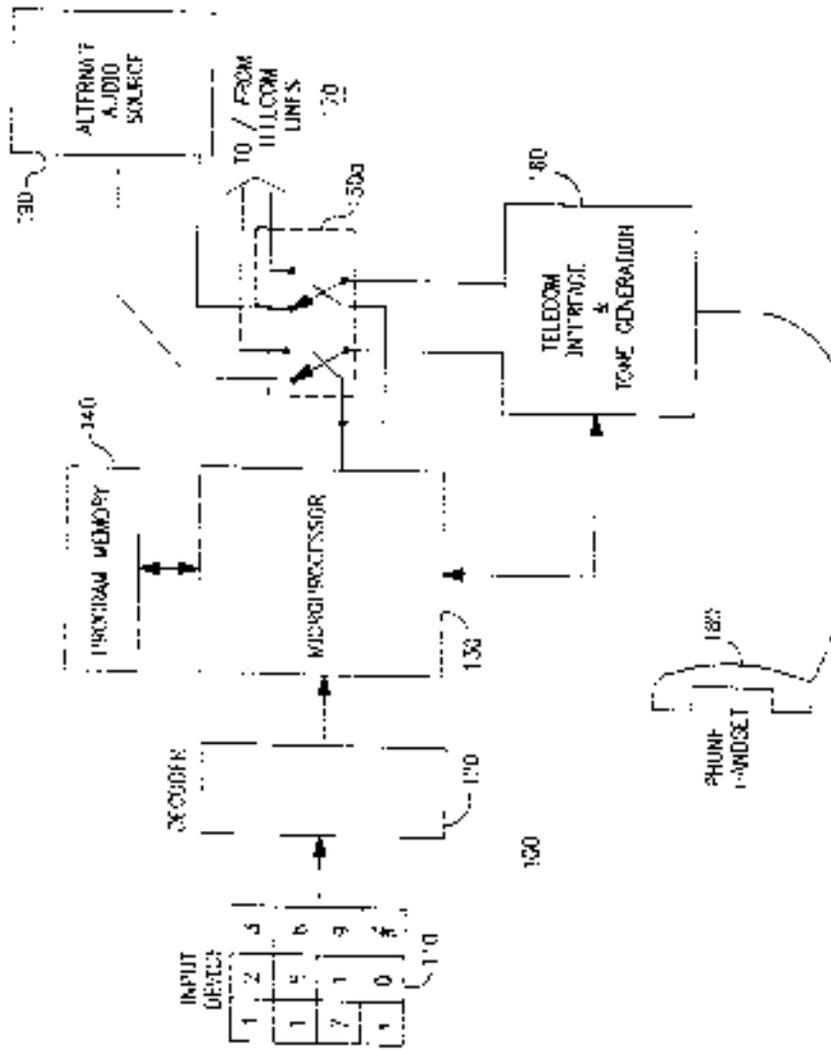


FIG. 1B

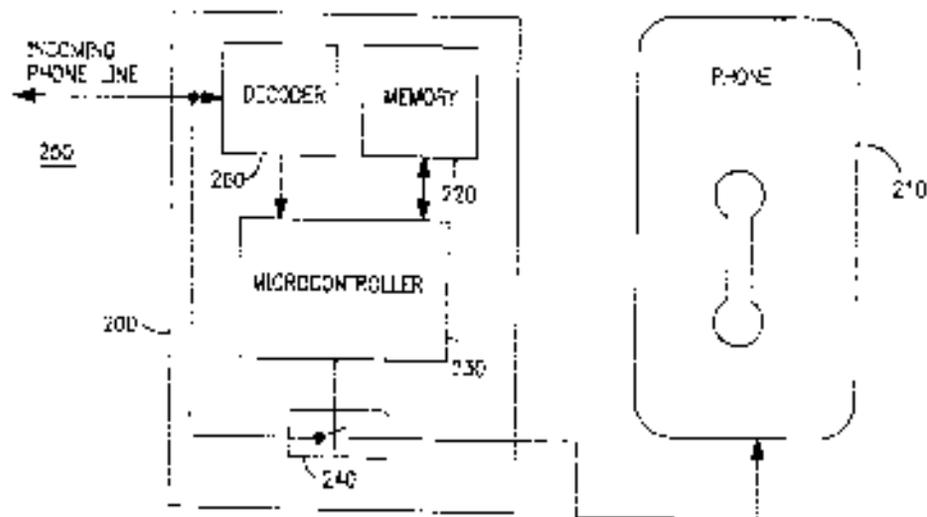


FIG. 2A

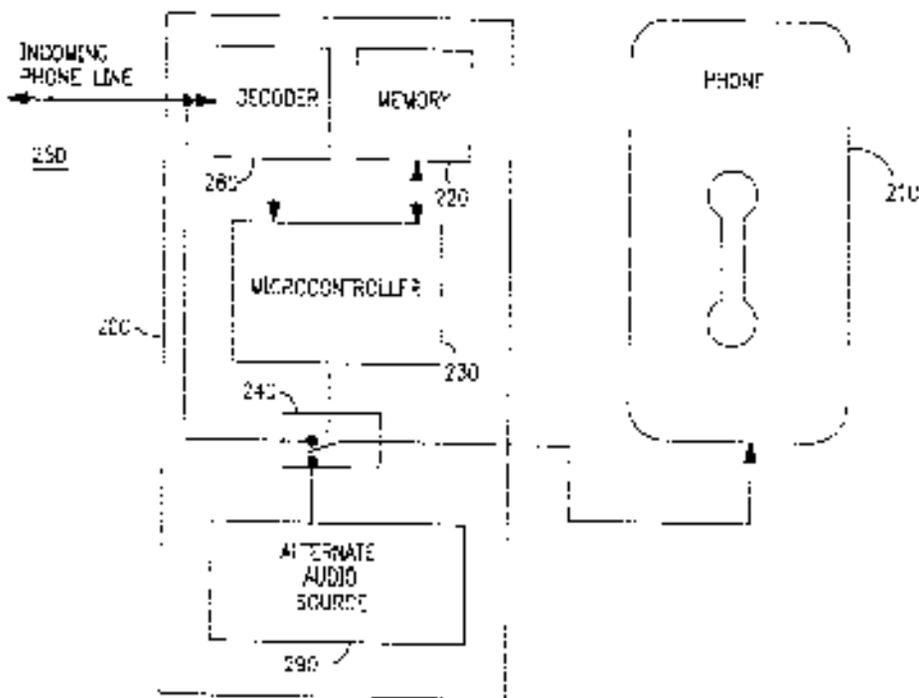


FIG. 2B

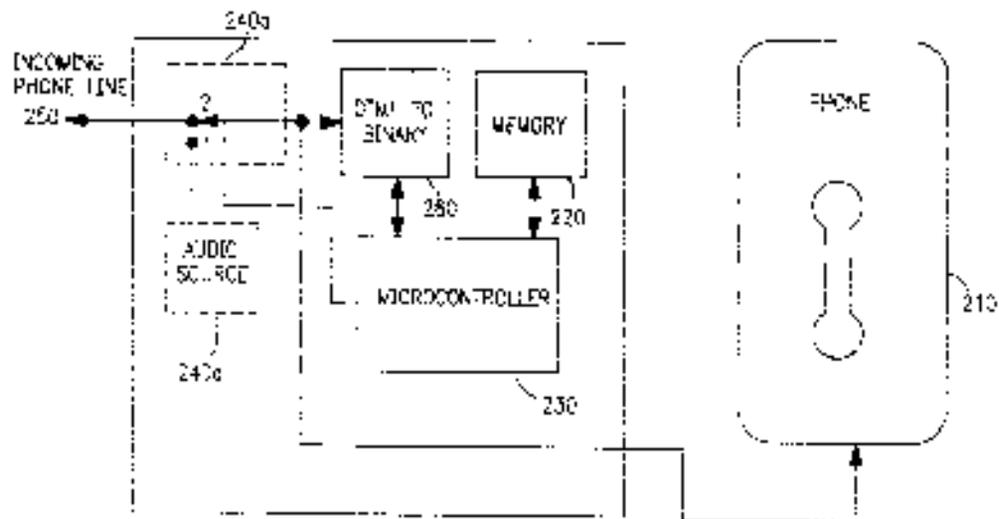


FIG. 2C

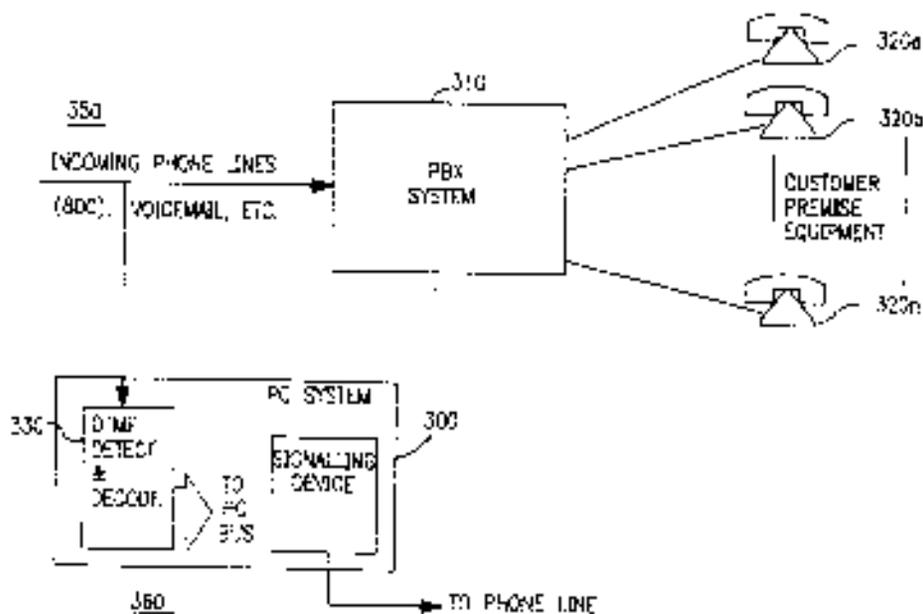


FIG. 3A

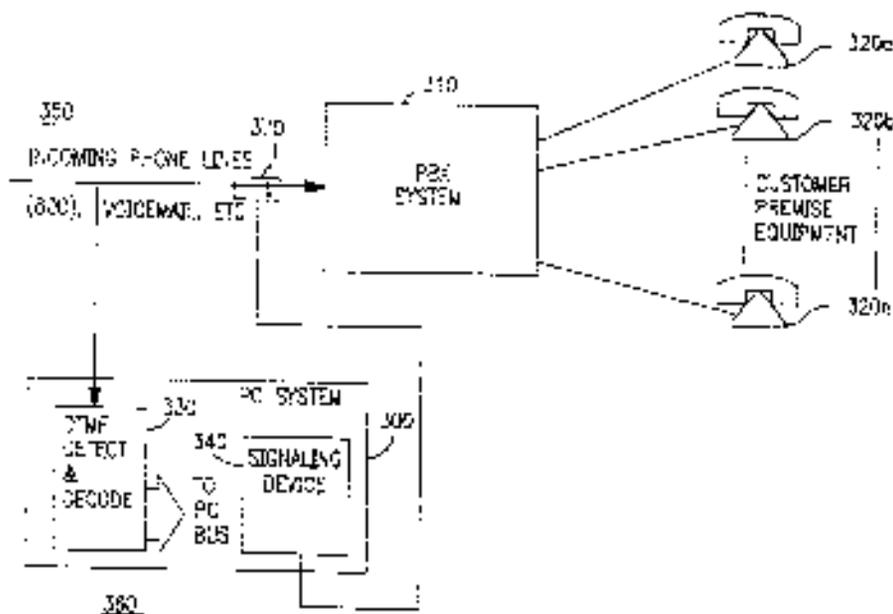


FIG. 3B

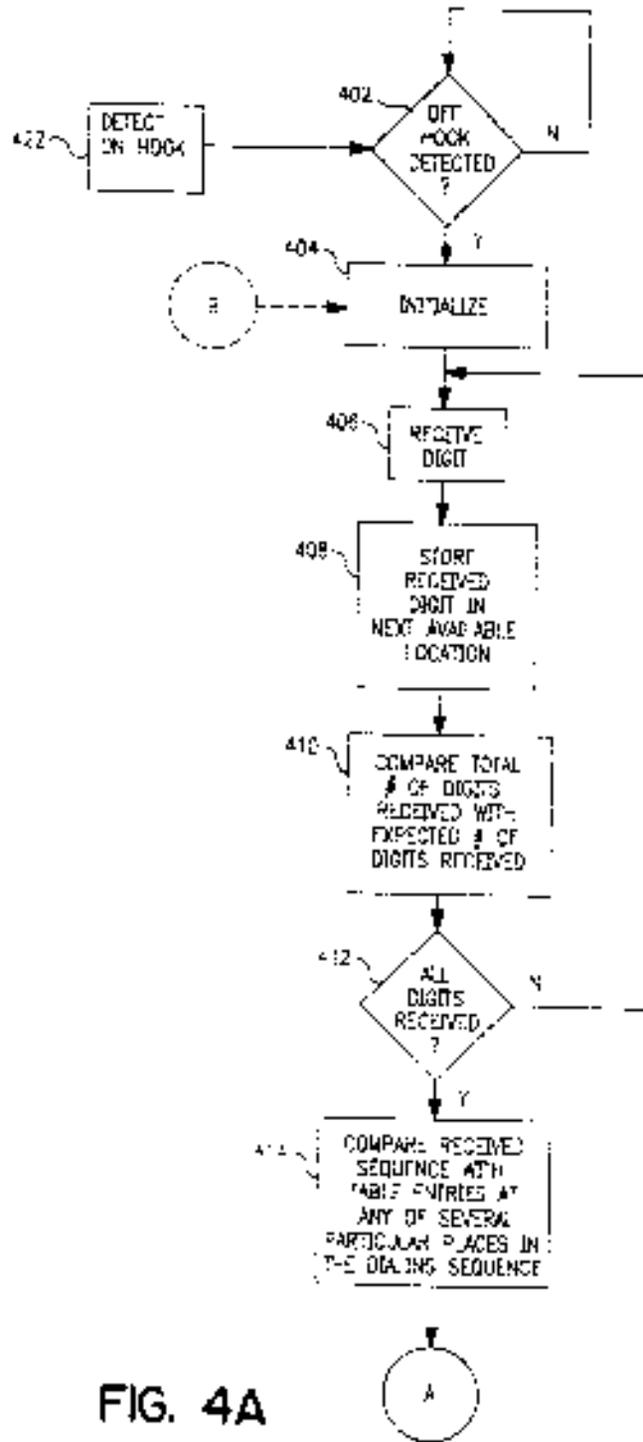


FIG. 4A

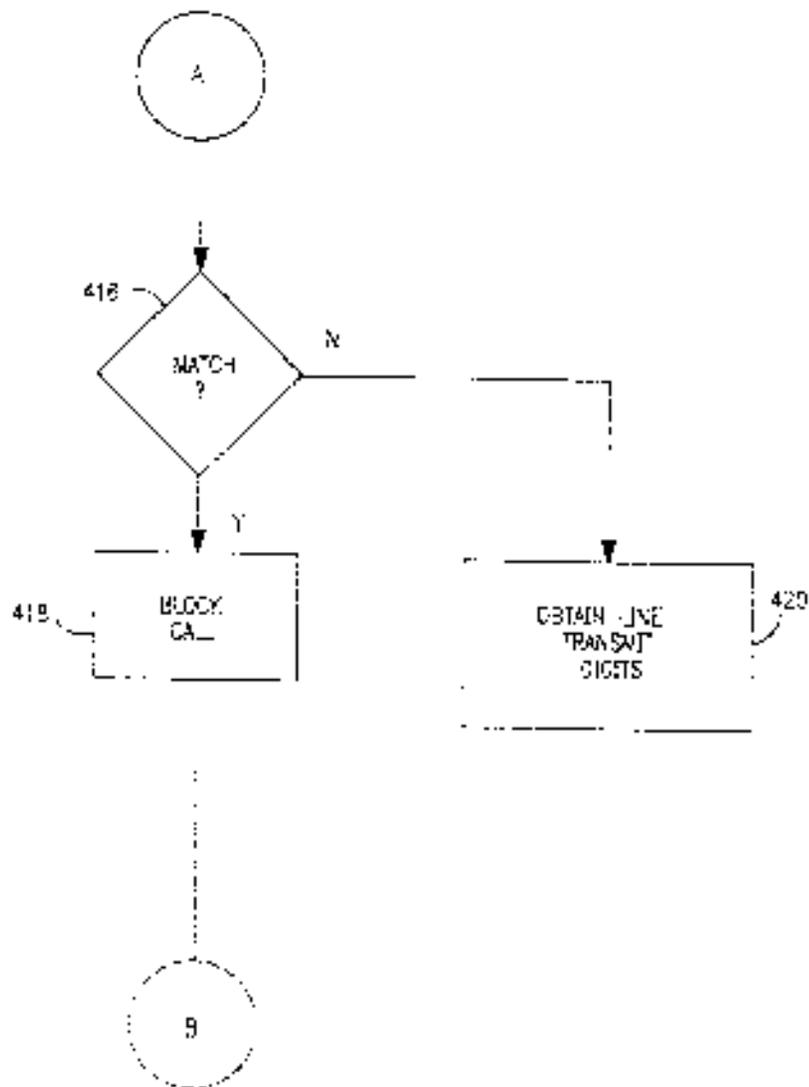


FIG. 4B

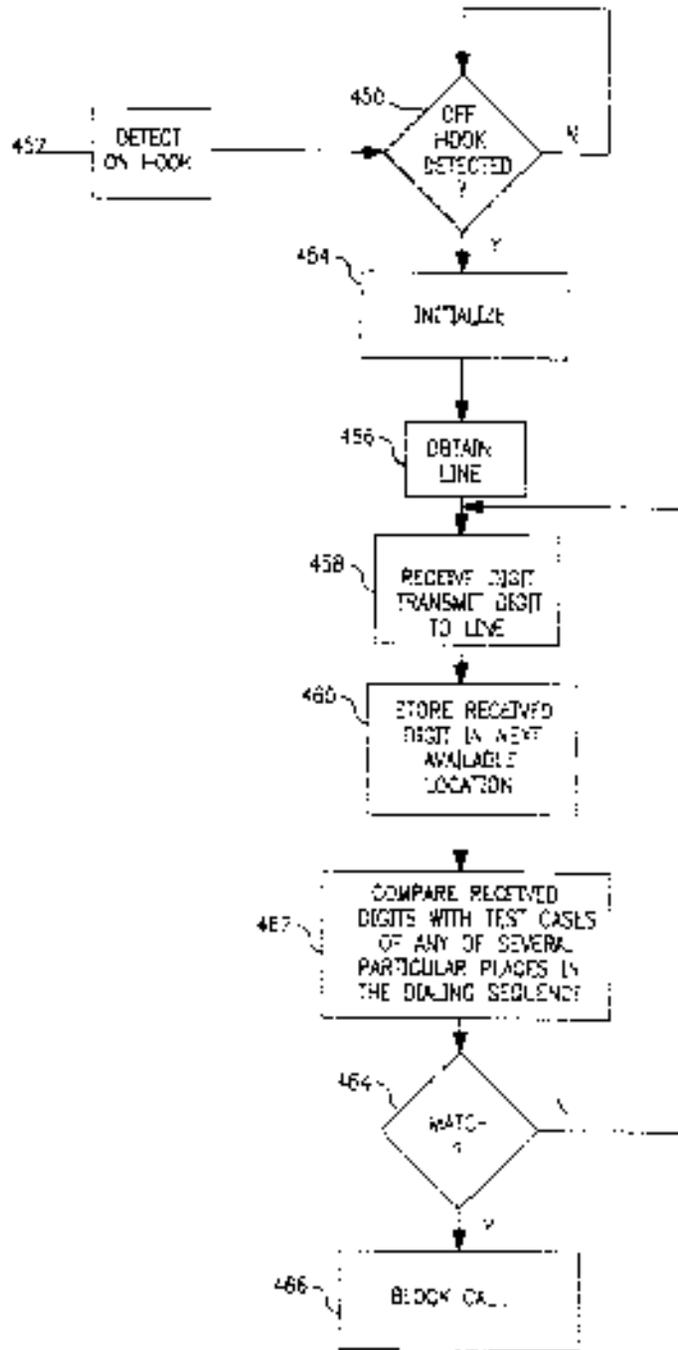


FIG. 4C

5,809,125

1
**METHOD AND APPARATUS FOR
 INTERCEPTING INTERNATIONALLY
 FRANCHISE TELEPHONE CALLS**

The application is a continuation of application Ser. No. 09/511,117 filed June 9, 1992, now abandoned.

BRIEF DESCRIPTION OF THE INVENTION

The present invention relates to communication systems and more specifically to the selective interception of telecommunication devices. It particularly relates to a method and apparatus disclosed for monitoring a sequence of digits entered on a telecommunication device and selectively intercepting telecommunication devices if particular digits are detected at defined locations in the sequence.

BACKGROUND OF THE INVENTION

A common method for dialing a long distance telephone number today is a pay telephone system through the use of a coin or a number key dialing unit. These devices require the dialer to enter a sequence of digits which are used as instructions to the telephone lines. These instructions are entered by entering a dialing unit or number key dialing unit, which is equipped with a coin slot for dialing and a coin slot. The dialing unit or device also provides a coin slot for the coin to be inserted into the device. The coin slot is used to insert a coin into the device. The device is used to dial a telephone number by inserting a coin into the device.

The present invention relates to a pay telephone system and a method for dialing a long distance telephone number. The method involves the use of a coin slot for dialing and a coin slot. The dialing unit or device also provides a coin slot for the coin to be inserted into the device. The coin slot is used to insert a coin into the device. The device is used to dial a telephone number by inserting a coin into the device.

The present invention relates to a pay telephone system and a method for dialing a long distance telephone number. The method involves the use of a coin slot for dialing and a coin slot. The dialing unit or device also provides a coin slot for the coin to be inserted into the device. The coin slot is used to insert a coin into the device. The device is used to dial a telephone number by inserting a coin into the device.

The present invention relates to a pay telephone system and a method for dialing a long distance telephone number. The method involves the use of a coin slot for dialing and a coin slot. The dialing unit or device also provides a coin slot for the coin to be inserted into the device. The coin slot is used to insert a coin into the device. The device is used to dial a telephone number by inserting a coin into the device.

The present invention relates to a pay telephone system and a method for dialing a long distance telephone number. The method involves the use of a coin slot for dialing and a coin slot. The dialing unit or device also provides a coin slot for the coin to be inserted into the device. The coin slot is used to insert a coin into the device. The device is used to dial a telephone number by inserting a coin into the device.

2

be stolen, for example, by watching an unsuspecting user enter the numbers. Until the numbers have been discovered and the account detected, these numbers can be used by the subscriber to frequently place phone calls. The toll charge account of the user is then charged for the cost of the calls. By using stolen calling card numbers in that manner, it is possible to fraudulently place calls by international wire companies from the United States.

Similarly, fraudulent calls may be placed using a night answer and auto-answering response systems. Again, since the digit 9, unknown to the user, can be entered into a telephone system in order to signal a night answer or automated voice response system to place a long distance international call. In this manner, the owner of the answering machine is automatically billed for the cost of such calls without the subscriber's consent.

The solution which addresses these problems is to provide telephone systems which require sequences which contain international telephone numbers. Such systems are often accessed to public telephones by dialing a sequence of digits, such as 9, followed by a long distance international call. In this manner, the owner of the answering machine is automatically billed for the cost of such calls without the subscriber's consent.

In addition, accessing international telephone numbers, the codes set forth above may be used for accessing long distance services such as international toll-free services. Some law prevents the dialing of international calls to public telephones where these calls are placed using coin-operated wires. Thus, although the dialing of toll-free numbers is the dialing of a long distance service, such as a toll-free number, access to these services is not restricted. The dialing of such numbers may be restricted by the dialing of a sequence of digits which is not followed by a long distance international call. The use of a sequence of digits which is not followed by a long distance international call may be used to restrict access to these services. The dialing of such numbers may be restricted by the dialing of a sequence of digits which is not followed by a long distance international call.

Additional access codes may be created for long distance services such as international toll-free services. The dialing of these numbers may be restricted by the dialing of these numbers using codes.

SUMMARY OF THE INVENTION

The present invention relates to a method and apparatus for intercepting international telephone numbers which originate with a dialing sequence which includes a digit 9 followed by a long distance international call. The dialing sequence includes a digit 9 followed by a long distance international call. The dialing sequence includes a digit 9 followed by a long distance international call. The dialing sequence includes a digit 9 followed by a long distance international call.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1A is a block diagram which illustrates an exemplary embodiment of the present invention.

FIG. 1B is a block diagram which illustrates an exemplary embodiment of the present invention.

FIG. 2A is a block diagram which illustrates an exemplary embodiment of the present invention.

FIG. 2B is a block diagram which illustrates an exemplary embodiment of the present invention.

FIG. 2C is a block diagram which illustrates an exemplary embodiment of the present invention.

FIG. 2D is a block diagram which illustrates an exemplary embodiment of the present invention.

FIG. 3B is a block diagram which illustrates an exemplary embodiment of the present invention.

5

Again, this telephone number will also include a set of three exchange codes to indicate the exchange area (one or several central offices) through which the call will proceed, either resulting in the destination's number.

In an exemplary embodiment of the present invention, detector 130 or more of the following digit sequences in the dialing sequence results in the blocking of a telephone call.

TABLE I

XXXXXX
0XXXXXX
9XXXXXX

In addition, it is possible that an internet protocol (IP) address is entered using a three digit area code. Exemplary internet IP addresses are numbers which result in a blocked call, include:

TABLE II

XXXXXX
XXXXXX
XXXXXX

It should be noted, communications being which are blocked by the present invention are not particular to any one type of telephone system. In fact, the dialing sequence of a landline or mobile phone will be blocked by the present invention. By blocking a telephone dialing sequence of three exemplary digit sequences, the present invention is providing a means for blocking a user's area and area code which may be otherwise prevented.

In an exemplary embodiment of the present invention, the present invention is implemented using a set of communication devices. These devices are used to receive a predetermined digit which is entered by the user during the dialing sequence. The predetermined digit is then compared to a list of predetermined digits to determine if the digit is the one of the dialing sequence. If the predetermined digit is not in the list, the predetermined digit is not compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list.

As shown in FIG. 1A, the present invention is implemented using a set of communication devices. These devices are used to receive a predetermined digit which is entered by the user during the dialing sequence. The predetermined digit is then compared to a list of predetermined digits to determine if the digit is the one of the dialing sequence. If the predetermined digit is not in the list, the predetermined digit is not compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list.

As shown in FIG. 1A, the present invention is implemented using a set of communication devices. These devices are used to receive a predetermined digit which is entered by the user during the dialing sequence. The predetermined digit is then compared to a list of predetermined digits to determine if the digit is the one of the dialing sequence. If the predetermined digit is not in the list, the predetermined digit is not compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list.

In an exemplary embodiment of the present invention, which are shown in FIG. 1A and 1B, the present invention is implemented using a set of communication devices. These devices are used to receive a predetermined digit which is entered by the user during the dialing sequence. The predetermined digit is then compared to a list of predetermined digits to determine if the digit is the one of the dialing sequence. If the predetermined digit is not in the list, the predetermined digit is not compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list.

6

calls can be handled by both entities, one in one of two ways. First, the telephone call can be terminated immediately upon detection of a predetermined digit at position in the dialing stream. Thus, each digit in the dialing sequence number is compared to a predetermined digit. If the digit is not a predetermined digit, the telephone user. After a delay, as each digit is entered, it may be stored in a memory 120. In this instance, none of the digits is transmitted to the communication line 170 until all of the digits in the dialing sequence have been entered. If predetermined digits are detected at specified locations in the dialing sequence, then the initial telephone number is not transmitted to the communication line 170. In an alternative embodiment of the present invention which is illustrated by FIG. 1B, the telephone user may enter a message from a communication device 190 indicating that the call is not to proceed. If the predetermined digit is detected, the call may be automatically routed to a service management or the installation containing the public telephone number.

In a further exemplary embodiment of the present invention, switch 180 or 190, LA and/or 150A or 150B or 180 or 190, is implemented using a set of communication devices 160. In this embodiment, the communication lines 170. Upon the detection of a predetermined digit at a particular position in the dialing sequence, the user's predetermined digit is compared to a list of predetermined digits. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list.

FIGS. 1A and 1B, switches 150 and 150A or 150B are shown as physical switches. However, it is understood that switches 150 and 150A may be implemented as mechanical or electronic switches. The communication devices 150 and 150A may be constructed as communication devices which are implemented using a set of communication devices. These devices are used to receive a predetermined digit which is entered by the user during the dialing sequence. The predetermined digit is then compared to a list of predetermined digits to determine if the digit is the one of the dialing sequence. If the predetermined digit is not in the list, the predetermined digit is not compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list. If the predetermined digit is in the list, the predetermined digit is compared to the list.

An exemplary embodiment of the present invention is shown in FIG. 2A. In this embodiment, the communication lines 250 are connected to the communication lines 250. The communication lines 250 are connected to the communication lines 250. The communication lines 250 are connected to the communication lines 250. The communication lines 250 are connected to the communication lines 250.

The exemplary embodiment of the present invention is shown in FIG. 2A. In this embodiment, the communication lines 250 are connected to the communication lines 250. The communication lines 250 are connected to the communication lines 250. The communication lines 250 are connected to the communication lines 250. The communication lines 250 are connected to the communication lines 250.

Although switch 240 is shown connected between communication device 230 and communication device 240, it is

The entire use of the present invention, which are described by FIG. 3A and FIG. 3B can also be used with a multi-line system. Thus, for the efficient use of a PDX, a call received message arrives and may be received, registered.

In a further example embodiment of the present invention, the output of dialing device 340 is connected directly to dialing device 310. In this manner, PDX system 110 receives an appropriate signal which prevents use of the PDX System for placing or forwarding calls.

As shown in FIG. 3, which illustrates the operation of the present invention as shown in FIG. 4A. At step 402, microprocessor 130 waits for an on hook condition. When an off hook condition is detected, the telephone software is initiated at step 404. At step 406, the user enters a digit and the telephone terminal device sends digit to microprocessor 130. At step 408, each digit is stored in a data register, which is associated with main processor 130. At step 410, the data number of digits which have been received is compared with the expected number of received digits. If a expected number of received digits is determined in accordance with the number of digits expected, then the microprocessor initiates the use of further digits in dialing sequence. At step 412, the microprocessor may check the user's preferred dialing procedure for any further digits. At step 412, all digits have not been received, the execution of the telephone software proceeds to step 406, so which particular digit is entered by the user is received. If further digits are received, the sequence of digits is compared with the number of any of several particular digits. If a digit sequence does not match the user's preferred dialing sequence, execution of the telephone software proceeds to step 416 of FIG. 4B. At step 416, a microprocessor 130 then proceeds to step 418, where the microprocessor 130 checks to see if a dialing digit is received. At step 418, if no dialing digit is received, the microprocessor 130 proceeds to step 420, where the dialing digit is transmitted to the telephone terminal device.

If a dialing digit is received, the microprocessor 130 then proceeds to step 418, where the microprocessor 130 checks to see if a dialing digit is received. At step 418, if no dialing digit is received, the microprocessor 130 proceeds to step 420, where the dialing digit is transmitted to the telephone terminal device.

When a dialing digit is received, the microprocessor 130 then proceeds to step 418, where the microprocessor 130 checks to see if a dialing digit is received. At step 418, if no dialing digit is received, the microprocessor 130 proceeds to step 420, where the dialing digit is transmitted to the telephone terminal device.

The exemplary embodiments of the present invention are within the scope of FIGS. 4A, 4B and 4C, and may be

slightly modified so that these embodiments may be used in accordance with the many variations of the present invention, which are illustrated by FIGS. 3A and 3B. By implementing these variations in conjunction with various checking signals to be transmitted when calls are in progress, the use of the device that prevents fraudulent telephone calls are occurring. Furthermore, such a signal may be used for preventing the PDX from completing the call by opening a switch to a telephone system line which is connected to the PDX, so as to be disconnecting operation of a multiplexed line by transmitting a separate signal to the PDX in order to disconnect at least a portion of the PDX.

In the above description, numerous reference numerals have been made to the blocking of a telephone call on the receipt of fraudulent activity. It is understood that any of a variety of methods may be used to prevent fraudulent use of the telecommunications device, including, but not limited to, severing appropriate connections, making the microprocessor dialing the digit entry device, or the keypad, etc.

When the invention has been described in terms of an exemplary embodiment, it is contemplated that it may be practiced as outlined above with modifications within the spirit and scope of the appended claims.

What is claimed is:

1. A telecommunications apparatus for automatically preventing establishment of a telephone call, the telecommunications apparatus comprising a central office exchange code, said telecommunications apparatus being capable of transmitting a dialing sequence which includes a first plurality of dialing signals, followed by a second plurality of dialing signals followed by a third plurality of dialing signals, said telecommunications apparatus comprising:

means for receiving said dialing sequence from a user; and means for dialing exchange code;

means for receiving said first plurality of dialing signals and for providing an establishment of said telephone call if said number of said plurality of dialing signals are determined to be in a second plurality of dialing sequence; and means for providing dialing sequence if said first plurality of dialing signals and the second plurality of dialing signals are determined to be in a third plurality of dialing signals.

2. A telecommunications apparatus according to claim 1, wherein said first plurality of dialing signals are used to determine a dialing sequence, and said second plurality of dialing signals are used to determine a dialing sequence.

3. A telecommunications apparatus according to claim 1, wherein said means for providing said telephone call if said dialing signals are determined to be in a second plurality of dialing signals and for providing an establishment of said telephone call if said second plurality of dialing signals are determined to be in a third plurality of dialing signals.

4. A telecommunications apparatus according to claim 1, wherein said means for providing said dialing sequence from a user includes dialing an access number which indicates that said dialing sequence is the dialing sequence to be used.

5. A telecommunications apparatus according to claim 1, wherein said means for providing said first plurality of dialing signals includes said first plurality of dialing signals and said second plurality of dialing signals, and said second plurality of dialing signals are used to determine a dialing sequence.

6. A telecommunications apparatus according to claim 1, wherein said respective predetermined signals which are used to determine said dialing are one of a set of international access digits or of international area code.

7. A telecommunications apparatus according to claim 3, wherein said means for providing said first plurality of

5,809,125

11

and a signal selectively prevents establishment of said telephony call by preventing said telephony communications apparatus from transmitting a portion of said dialing sequence.

8. The communications apparatus for selectively enabling establishment of a telephony call to a telephone number by a central office exchange code via communications network said telecommunications apparatus being capable of transmitting a dialing sequence which includes a first plurality of n g signals followed by a second plurality of dialing signals followed by a third plurality of dialing signals, said telecommunications apparatus comprising:

means for receiving said dialing sequence from transmitting said central office exchange code;

means for evaluating said third plurality of dialing signals and for determining if said dialing sequence and for determining if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals;

means for transmitting said dialing sequence to said telecommunications network;

means for evaluating said plurality of dialing signals and for determining if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals;

means for determining if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals;

9. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

10. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

11. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

12. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

13. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

14. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

15. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

16. The communications apparatus according to claim 8, wherein said means for evaluating said dialing sequence is configured to determine if said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

12

means for evaluating said plurality of second signal values and for preventing establishment of said telephony call;

and plurality of second signal values are determined to be in a location, said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals, and a signal value and a first signal value are determined to be in a location, said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

16. The communications apparatus according to claim 15, wherein said means for evaluating said plurality of second signal values includes means for evaluating said first signal value and for preventing establishment of said telephony call if said first signal value is a predetermined value in said sequence to determine if said first signal value is a predetermined value.

17. The communications apparatus according to claim 15, wherein said means for evaluating said plurality of second signal values includes means for evaluating said first signal value and for preventing establishment of said telephony call if said first signal value is a predetermined value in said sequence to determine if said first signal value is a predetermined value.

18. The communications apparatus according to claim 15, wherein said means for evaluating said plurality of second signal values includes means for evaluating said first signal value and for preventing establishment of said telephony call if said first signal value is a predetermined value in said sequence to determine if said first signal value is a predetermined value.

19. The communications apparatus according to claim 15, wherein said means for evaluating said plurality of second signal values includes said first signal value and said plurality of other signal values to determine if said plurality of second signal values.

20. The communications apparatus according to claim 15, wherein said plurality of second signal values are determined to be in a location, said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals, and a signal value and a first signal value are determined to be in a location, said dialing sequence is a first plurality of dialing signals and a second plurality of dialing signals.

21. The communications apparatus according to claim 15, wherein said means for evaluating said plurality of second signal values prevents establishment of said telephony call if said first signal value is a predetermined value in said sequence to determine if said first signal value is a predetermined value.

22. A method for partially preventing operation of a telephony call device which is capable of transmitting a plurality of signal values, said method comprising the steps of:

receiving said plurality of signal values;

transmitting a plurality of said plurality of signal values to a telephony call device which is capable of transmitting said plurality of signal values, said plurality of signal values being transmitted to said telephony call device via a communication network; and evaluating said plurality of signal values to determine if said plurality of signal values is a first plurality of dialing signals and a second plurality of dialing signals.

23. A method for partially preventing operation of a telephony call device which is capable of transmitting a plurality of signal values, said method comprising the steps of:

receiving said plurality of signal values;

transmitting a plurality of said plurality of signal values to a telephony call device which is capable of transmitting said plurality of signal values, said plurality of signal values being transmitted to said telephony call device via a communication network; and evaluating said plurality of signal values to determine if said plurality of signal values is a first plurality of dialing signals and a second plurality of dialing signals.

5,609,125

15

43. The apparatus of claim 42, wherein said plurality of said signals corresponds to one of the characters 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, and *.

44. The apparatus of claim 42, wherein said said tele-communications device is a public or a telecommunication's pathway and wherein said prevention means includes means for severing a connection between said tele-communications device and said telecommunication's pathway.

45. The apparatus of claim 42, wherein said plurality of test signals corresponds to digit sequence III.

46. Apparatus according to claim 42, wherein said plurality of test signals corresponds to "00" dialing sequence.

47. Apparatus according to claim 42, wherein said prevention means self-terminates communications between said telecommunications device and said tele-

16

communications device. If said time priority of signals are determined to be a time priority within said plurality of signals which indicates that said plurality of signals are for accomplishing international dialing.

48. Apparatus according to claim 42, wherein said prevention means identifies said time priority of signals and said second plurality of signals, and then, based on said time priority of signals.

49. Apparatus according to claim 42, wherein said time priority of test signals which are used for accomplishing international dialing are one of at an international access code and an international area code.

EXHIBIT D

U.S. Patent

Sep. 22, 1998

Sheet 1 of 9

5,812,650

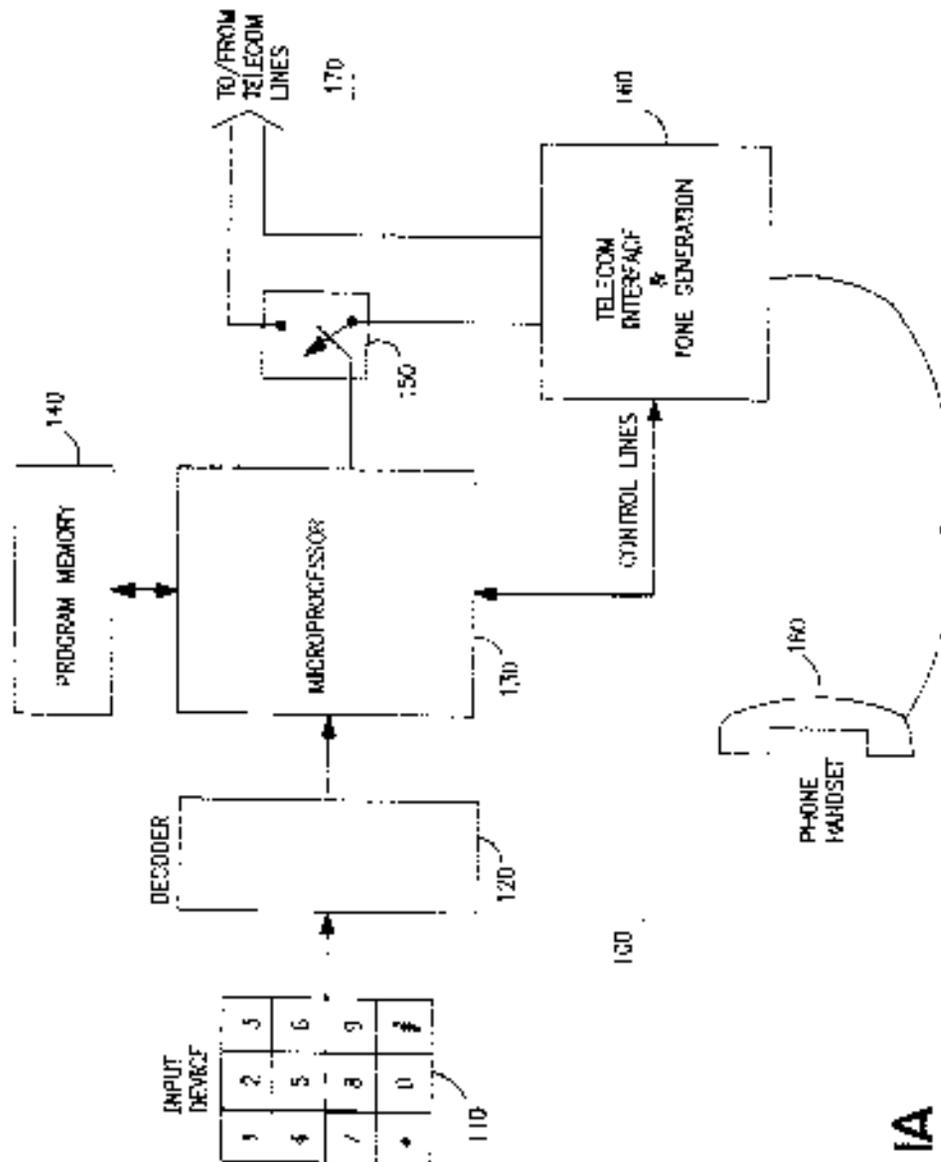


FIG. 1A

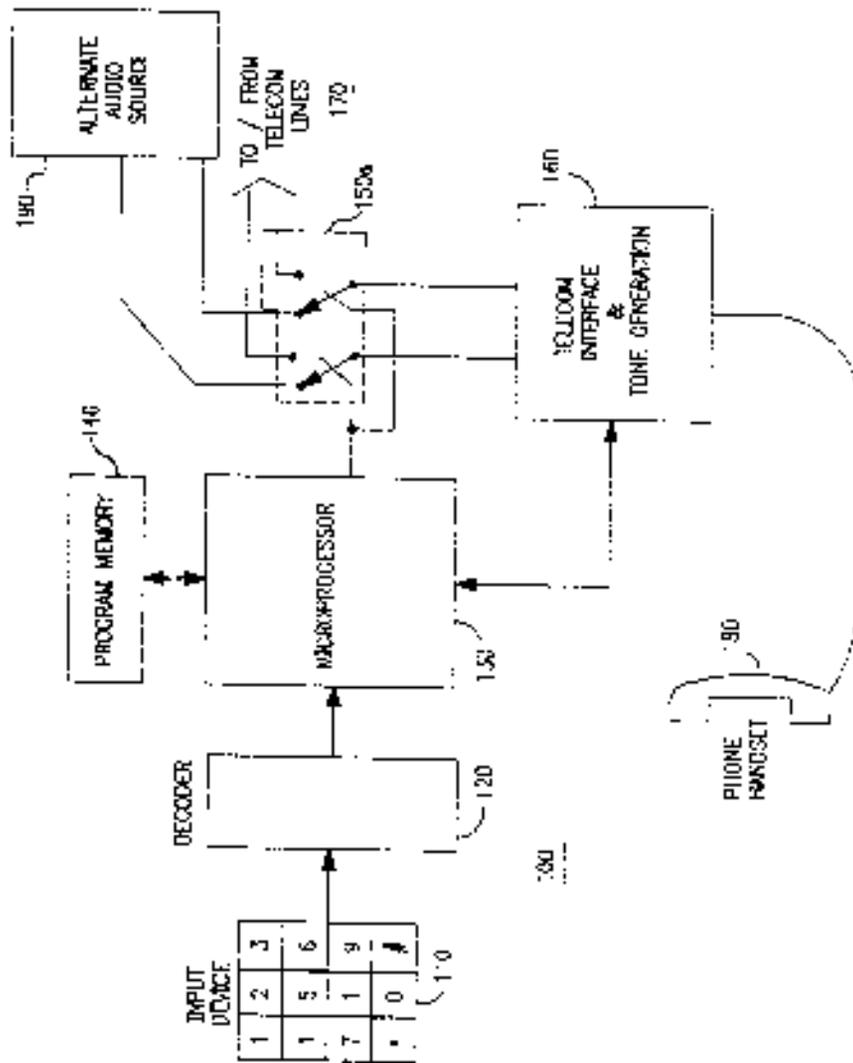


FIG. 1B

U.S. Patent

Sep. 22, 1998

Sheet 3 of 9

5,812,650

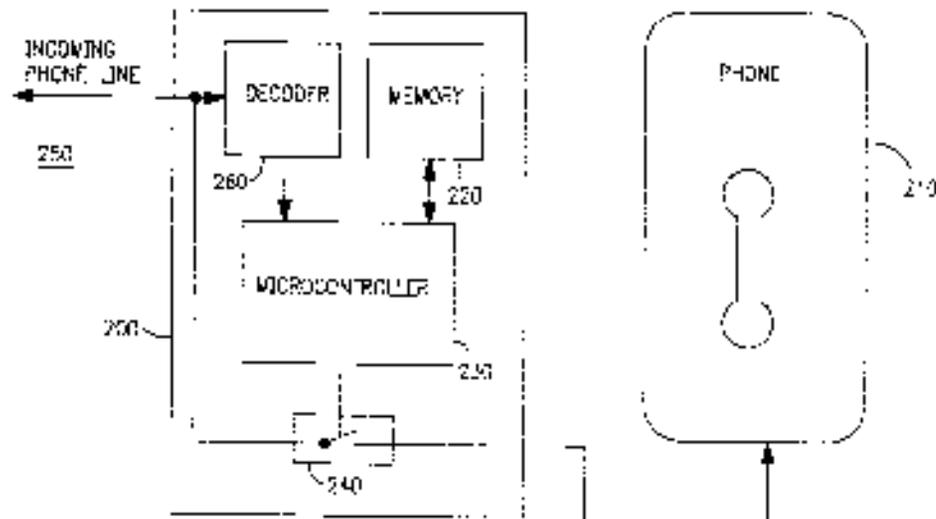


FIG. 2A

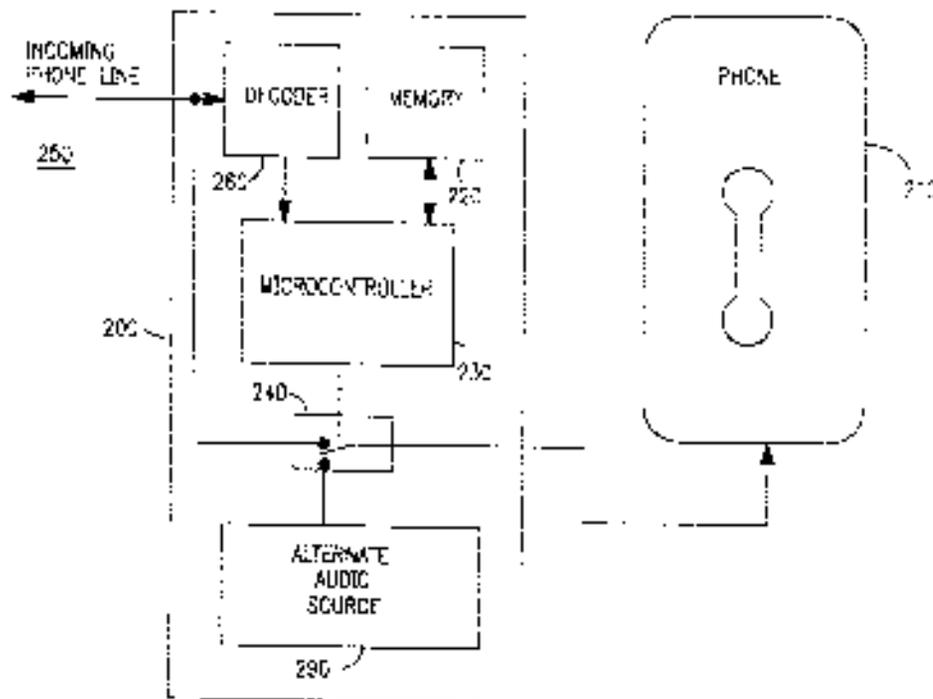


FIG. 2B

U.S. Patent

Sep. 22, 1998

Sheet 4 of 9

5,812,650

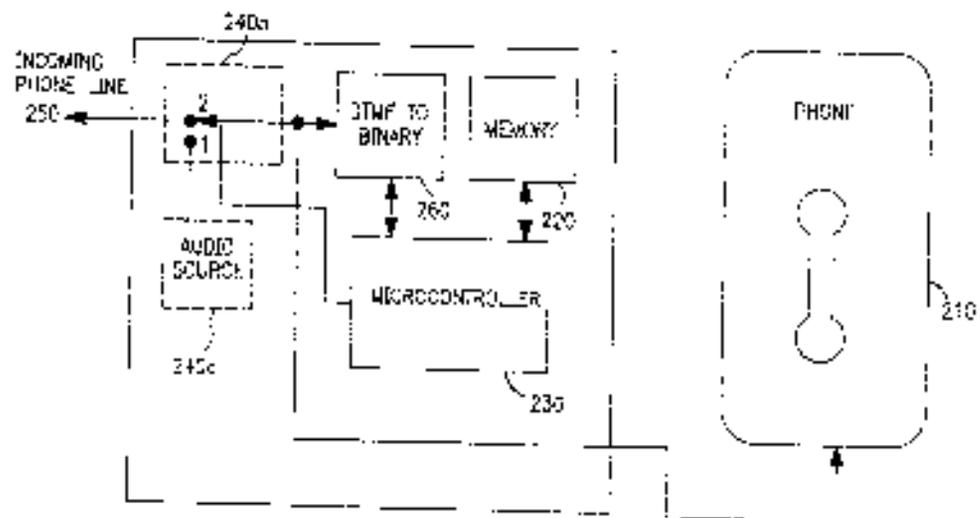


FIG. 2C

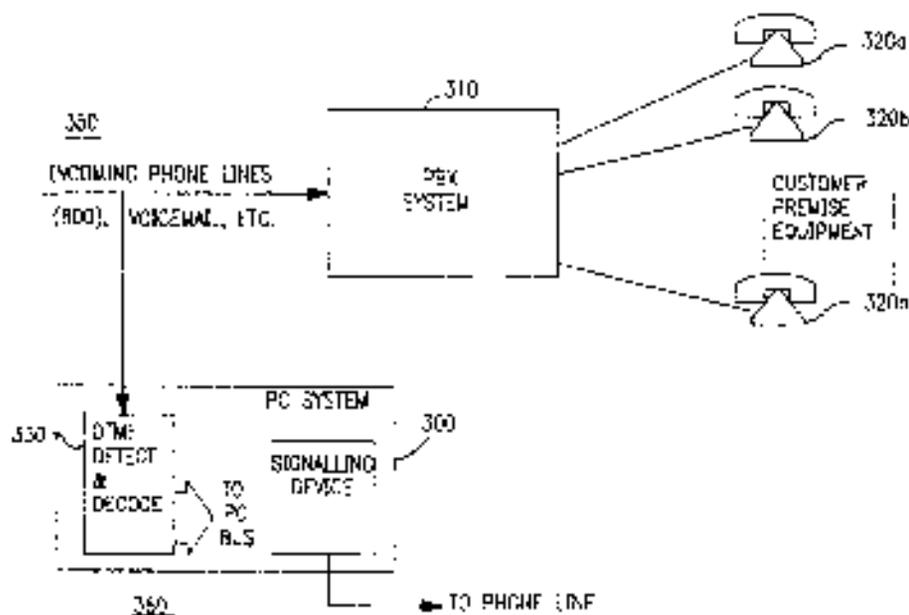


FIG. 3A

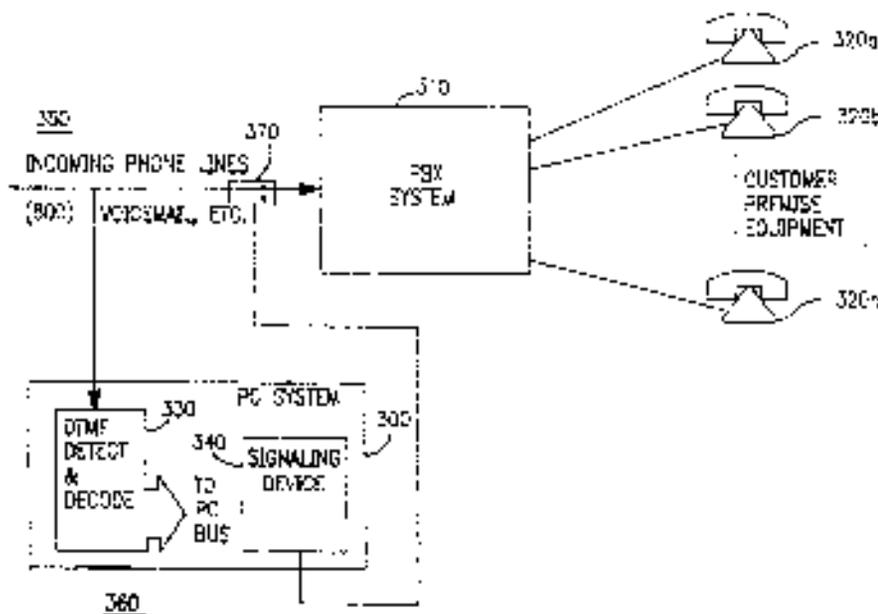


FIG. 3B

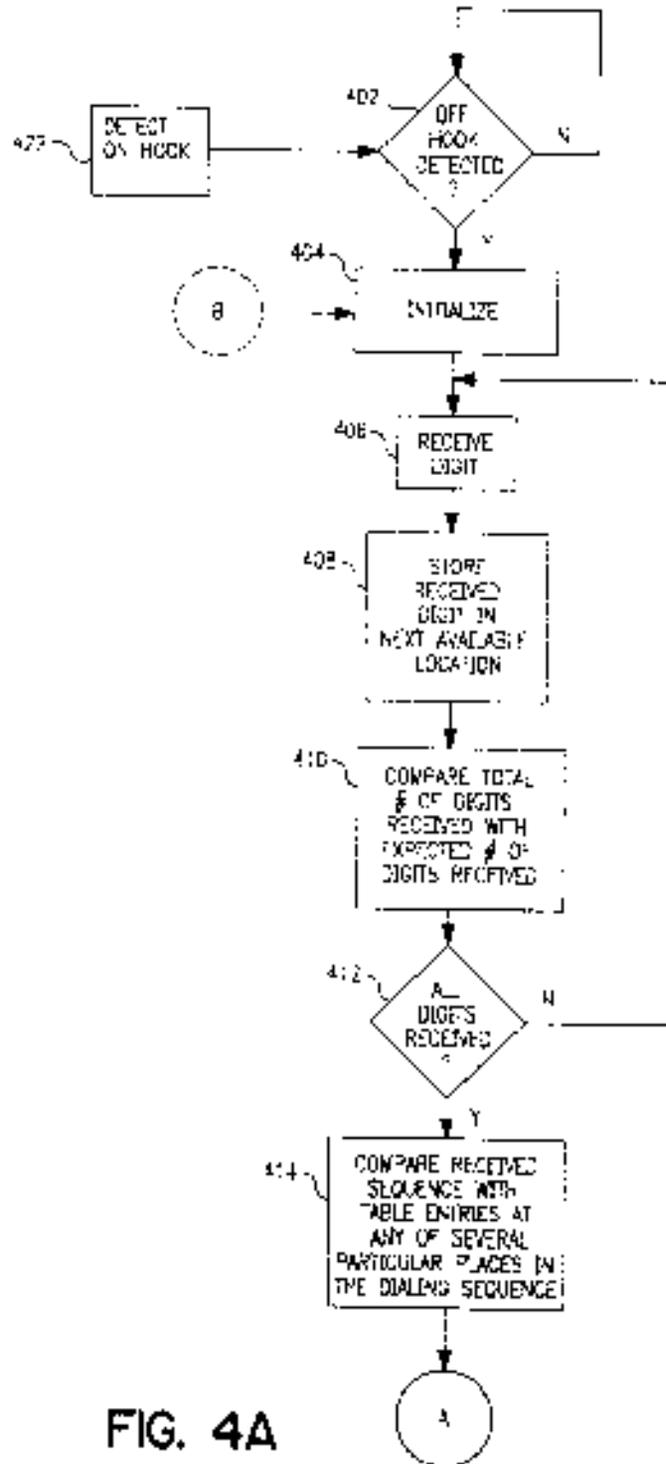


FIG. 4A

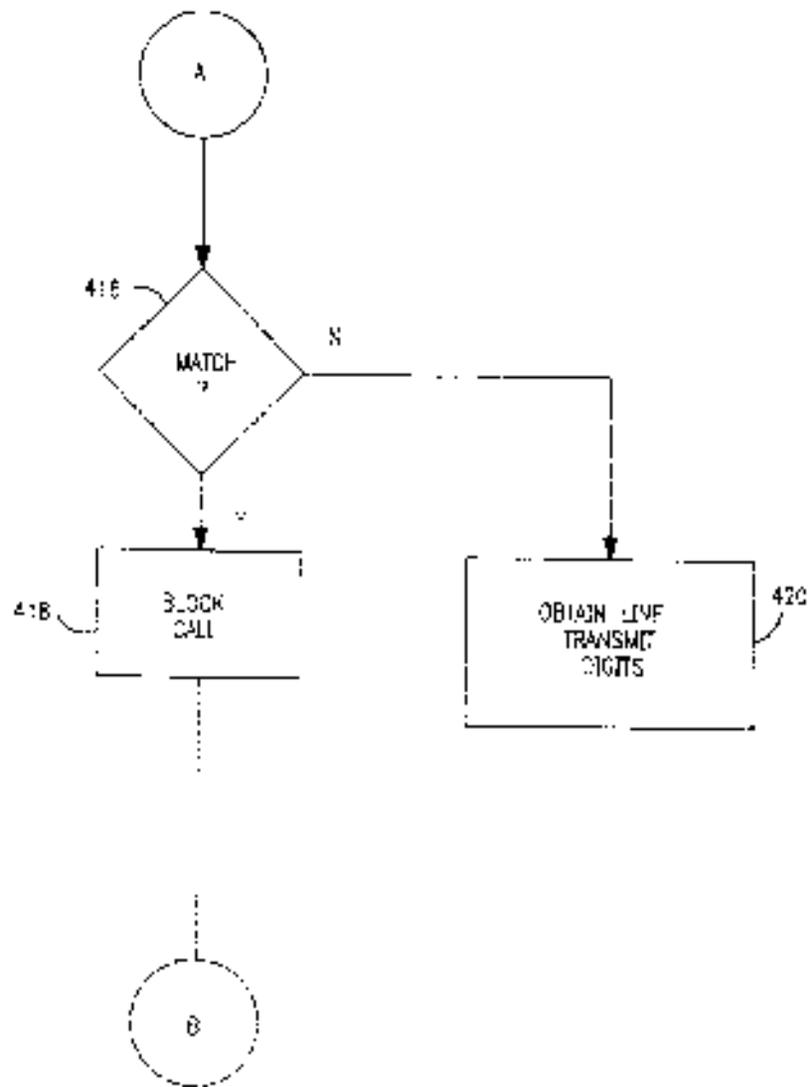


FIG. 4B

U.S. Patent

Sep. 22, 1998

Sheet 8 of 9

5,812,650

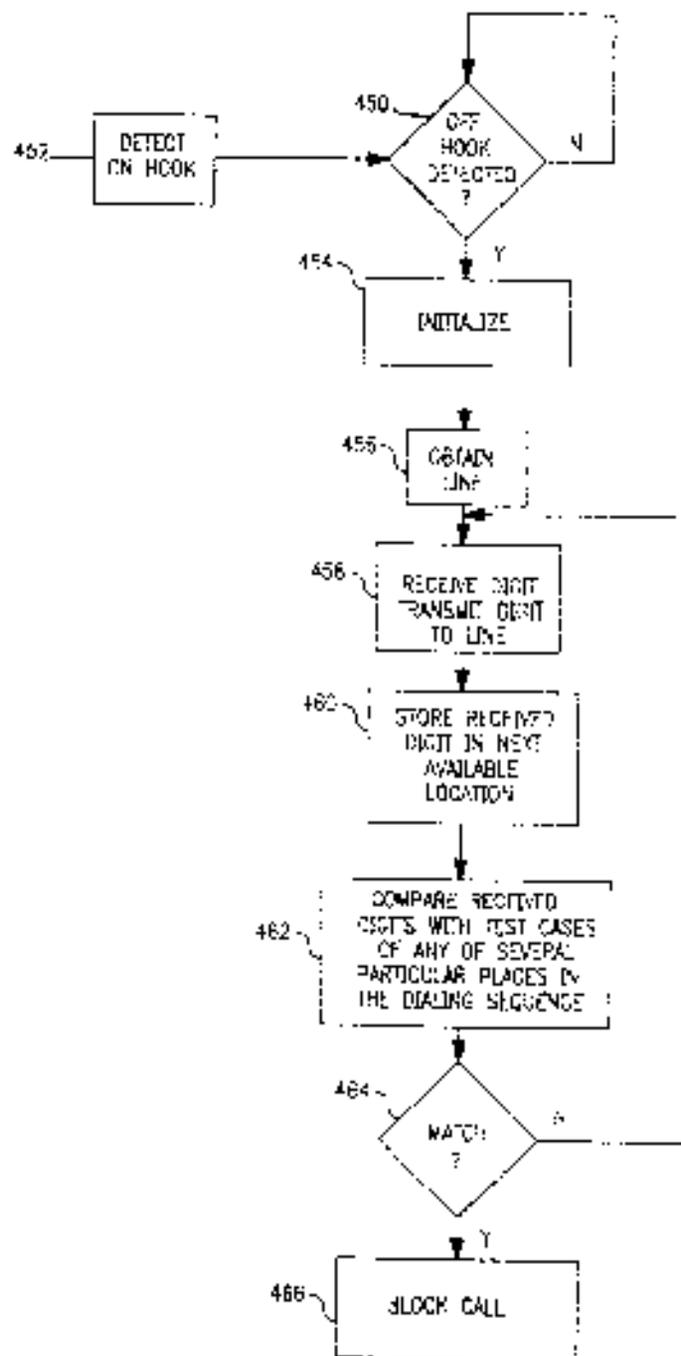


FIG. 4C

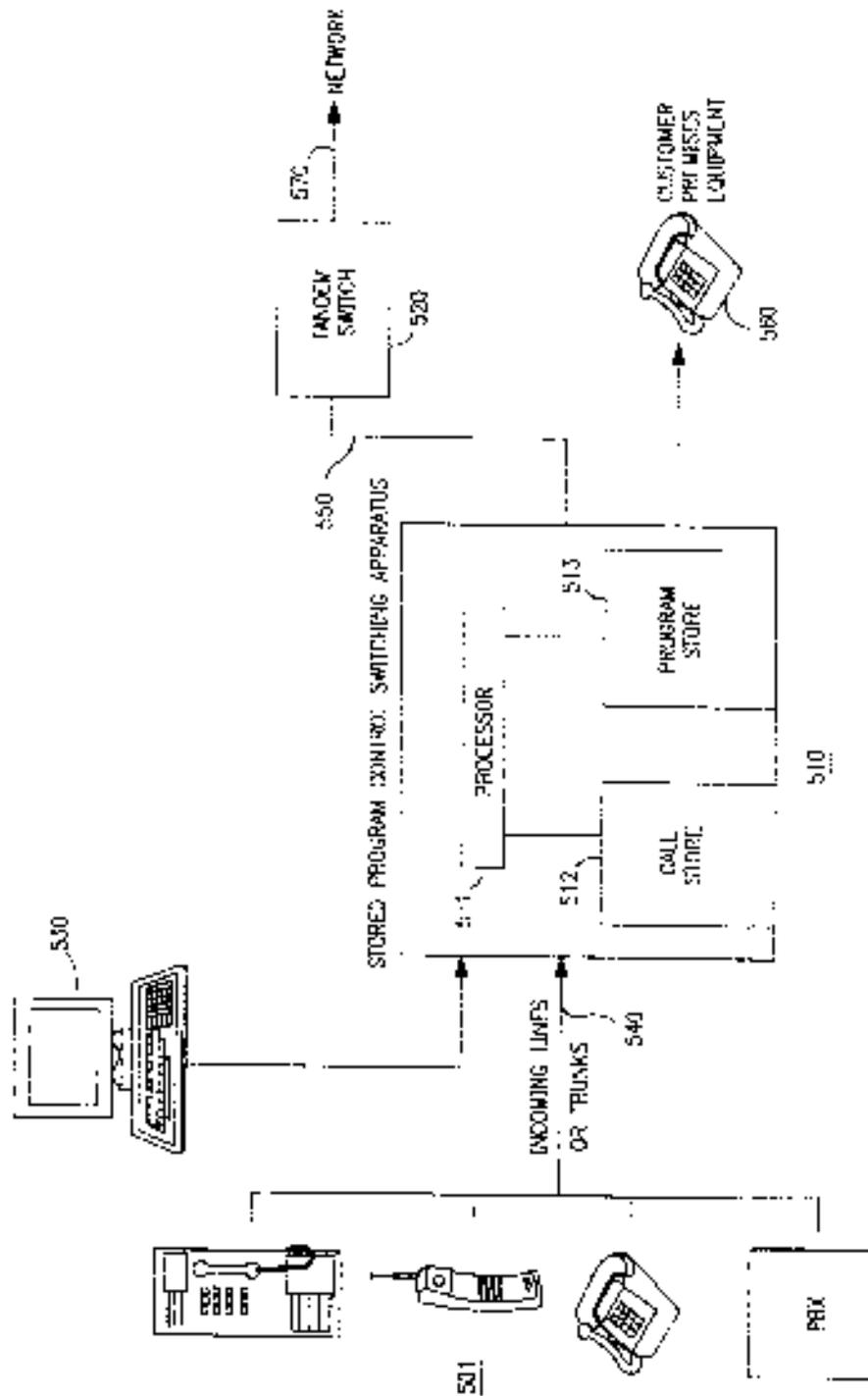


FIG. 5

5,817,880

1

**METHOD AND APPARATUS FOR
INTERCEPTING POTENTIAL
FRAUDULENT**

The application is a continuation of application No. 09/022,102 filed Apr. 27, 2001, which is abandoned, which was a continuation in part of application Ser. No. 07/844,112 filed Jul. 23, 2002, now abandoned.

FIELD OF THE INVENTION

The present invention relates to a determination such as to more specifically to the selective interception of telephone numbers for devices, in particular, to a device and apparatus used for monitoring a sequence of digits entered into a communication device and selecting a predetermined telephone number for a variety of particular digits and digits of a sequence of digits in a sequence.

BACKGROUND OF THE INVENTION

A common method of placing a call with a personal communication device (e.g., pay telephone) through the use of a digit sequence number. A calling sequence number is a sequence of digits which may be used to input to a telephone communication device. In this communication use, by entering a calling sequence number, the user of a communication device may be charged for calling or the user may charge which users are particular calling card systems and programs or responsibility of the calling sequence number (e.g., part of an individual telephone). In this system, a number of a telephone number is entered by a user of a device.

In a communication device, a sequence of digits is entered to request a telephone number. In this system, a user requests the call is allowed to connect to a variety of telephone numbers completely, assuming that the sequence of digits when calling a telephone number is recognized by the telephone number. Thus, a user may enter a sequence of digits and the telephone number in the amount of a telephone number. In other words, by entering a sequence of digits, a user may be charged for the calling card account or the device prevented.

As an example, FIG. 1 shows an exemplary telephone number with a calling card telephone number. A calling card number is a public telephone number which is international access code (e.g., 011 or 01) followed by a country code, the city code, and the number of the telephone number. The user would dial the sequence of digits of the telephone number may be an international, for example, by pressing the appropriate buttons on a DTMF keypad.

An alternative way to place calls using a telephone communication device is through the use of a telephone and automatic voice response systems. By entering a series of digits which will enter a system, a user of the system is entered. Even by entering a sequence of digits (e.g., an access code), the system may be entered to place a telephone call to anywhere in the world. The owner of the system (e.g., a corporation) is billed for the cost of the call which is completed by the system. An exemplary system of this type is described in U.S. Pat. No. 6,777,124 entitled "VOX TELEPHONE CALL CONTROL SYSTEM" which is incorporated by reference for its teachings in the field of automatic voice response systems. Again, the security in preventing unauthorized use of such a system is an important consideration in a telephone communication system.

Although the methods described above appear to be secure, there are several ways in which a user could still

2

can be maliciously used to place a call. For example, a user may be able to enter a sequence of digits which will enter a system and the system will be billed for the cost of the call. For example, a user may be able to enter a sequence of digits which will enter a system and the system will be billed for the cost of the call. For example, a user may be able to enter a sequence of digits which will enter a system and the system will be billed for the cost of the call.

FIG. 1 is a block diagram which illustrates a first exemplary embodiment of the present invention. FIG. 1B is a block diagram which illustrates a second exemplary embodiment of the present invention. FIG. 2A is a block diagram which illustrates a third exemplary embodiment of the present invention. FIG. 2B is a block diagram which illustrates a fourth exemplary embodiment of the present invention. FIG. 3C is a block diagram which illustrates a fifth exemplary embodiment of the present invention. FIG. 3A is a block diagram which illustrates a sixth exemplary embodiment of the present invention. FIG. 3B is a block diagram which illustrates a seventh exemplary embodiment of the present invention.

FIG. 1A is a block diagram which illustrates a first exemplary embodiment of the present invention. FIG. 1B is a block diagram which illustrates a second exemplary embodiment of the present invention. FIG. 2A is a block diagram which illustrates a third exemplary embodiment of the present invention. FIG. 2B is a block diagram which illustrates a fourth exemplary embodiment of the present invention. FIG. 3C is a block diagram which illustrates a fifth exemplary embodiment of the present invention. FIG. 3A is a block diagram which illustrates a sixth exemplary embodiment of the present invention. FIG. 3B is a block diagram which illustrates a seventh exemplary embodiment of the present invention.

FIG. 1A is a block diagram which illustrates a first exemplary embodiment of the present invention. FIG. 1B is a block diagram which illustrates a second exemplary embodiment of the present invention. FIG. 2A is a block diagram which illustrates a third exemplary embodiment of the present invention. FIG. 2B is a block diagram which illustrates a fourth exemplary embodiment of the present invention. FIG. 3C is a block diagram which illustrates a fifth exemplary embodiment of the present invention. FIG. 3A is a block diagram which illustrates a sixth exemplary embodiment of the present invention. FIG. 3B is a block diagram which illustrates a seventh exemplary embodiment of the present invention.

FIG. 1A is a block diagram which illustrates a first exemplary embodiment of the present invention. FIG. 1B is a block diagram which illustrates a second exemplary embodiment of the present invention. FIG. 2A is a block diagram which illustrates a third exemplary embodiment of the present invention. FIG. 2B is a block diagram which illustrates a fourth exemplary embodiment of the present invention. FIG. 3C is a block diagram which illustrates a fifth exemplary embodiment of the present invention. FIG. 3A is a block diagram which illustrates a sixth exemplary embodiment of the present invention. FIG. 3B is a block diagram which illustrates a seventh exemplary embodiment of the present invention.

SUMMARY OF THE INVENTION

The present invention is a method and apparatus for intercepting potential fraudulent calls which are entered with a calling sequence number which includes a first plurality of digits followed by a second plurality of digits. The call is intercepted and a plurality of digits is entered into the first plurality of digits and a plurality of digits is entered into the second plurality of digits.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1A is a block diagram which illustrates a first exemplary embodiment of the present invention. FIG. 1B is a block diagram which illustrates a second exemplary embodiment of the present invention. FIG. 2A is a block diagram which illustrates a third exemplary embodiment of the present invention. FIG. 2B is a block diagram which illustrates a fourth exemplary embodiment of the present invention. FIG. 3C is a block diagram which illustrates a fifth exemplary embodiment of the present invention. FIG. 3A is a block diagram which illustrates a sixth exemplary embodiment of the present invention. FIG. 3B is a block diagram which illustrates a seventh exemplary embodiment of the present invention.

9

of which an appropriate number of devices may then take further action, such as terminating the call, sending the call, etc.

In a further exemplary embodiment of the present invention, such as illustrated by FIG. 4B, the signal signaling device 340 is configured to switch 370. Thus, upon the detection of a particular signal element at approximately step 390, the dialing sequence by PC System 300 is interrupted and over the line may proceed from 350 and PBX system 450 is terminated. Thus, the telephone call is automatically initiated.

The embodiments of the present invention which are illustrated by FIG. 4A and FIG. 4B are also operative with a digital type system. Thus, the fraudulent use of a PBX in making event message environment can be effectively prevented.

In a further exemplary embodiment of the present invention, the output of signaling device 340 is connected to a line (not shown) to PBX system 310. In this example, PBX system 310 receives an emergency signal, which is transmitted to the PBX system to place the frequency.

After that, a signal which indicates that the request for the present invention is shown in FIG. 4A. At step 402, when a processor 130 enters an on-hook condition. When an on-hook condition is detected, the appropriate sequence is shown at step 404. At step 406, as the caller enters a digit into the communication device, a digit is received. At step 408, even has a stored digit is extracted from memory within processor 130. At step 410,

the two numbers of digits which have been received are compared with the expected sequence of received digits. The expected sequence of received digits is determined in accordance with one of the United States or International dialing procedures by determining the sequence of digits in the dialing sequence. Alternatively, at step 410, processing may continue after a predetermined period of time has elapsed. At step 412, if the digits have not been received, operation of the computer software proceeds to step 406, at which point a new digit entered by the user is processed. Otherwise, at step 414, the received sequence of digits is compared with the entries in any of several particular places in the dialing sequence such as in the addresses in Tables 1 and 2 above. Detection of the dialing pattern within the proceeds to step 416 as set forth in paragraph A(1) of step 414, a match is determined. Then at step 418, control continues to step 418 at which point the call is blocked. Alternatively, at step 416, if no match is found, control continues to step 420 at which point a new digit is obtained and the stored digit is transferred to the dialing sequence line to initiate the call.

In an alternative embodiment of the present invention, after the call is placed at step 428, control continues to step 404 at which point the computer software is initialized and a new sequence of digits may be entered. At any time, if an on-hook condition is detected (step 422), that control is transferred to step 402.

A further exemplary embodiment of the present invention is illustrated by FIG. 4B. At step 450, when an on-hook condition is detected, the dialing sequence is initiated. At step 454, a line is obtained. At step 458, a dialing digit is received from the telephone use. This dialing digit is transmitted to the switchable line. At step 460, the received dialing digit is stored in a memory available to and associated with microprocessor 130. At step 456, the stored digits are compared with a plurality of stored numbers at any of several particular places in the dialing sequence. At step 464,

SECTION

10

if a match is found, then, at step 466, the call is blocked. Alternatively, to initiate a fraud attempt, step 464, even when the computer software continues at step 458, if a match is found, a number dialing digit is received, then the dialing sequence of digits and digits have been entered without detection of a match, step 464, then the dialing sequence is initiated. At any time, if an on-hook condition is detected (step 452), the processing automatically continues to step 450.

The exemplary embodiments of the present invention which are illustrated by FIGS. 4A, 4B and 4C may be slightly modified without departing from the scope intended by the exemplary embodiments of the present invention, which are disclosed by FIGS. 4A, 4B and 4C. In implementing these algorithms in conjunction with security processing, signaling information transmitted within areas of a network or network environment at potentially fraudulent attempts takes into account the information, such as signal and message for preventing the PBX from implementing the dialing sequence, or a dialing sequence, which is used to initiate a switch on a line to another location line, which is connected to the PBX, to initiate dialing a particular dialing sequence which is containing a sequence of digits in the PBX or which is dialing a particular sequence in the PBX.

In a further exemplary embodiment of the present invention, a plurality of signal values (such as a dialing sequence, mentioned in paragraph A(1) of FIG. 4A) are received. This number of signal values is the processor 130 then determines if the entered signal value corresponds to one of several signal value sequences that are stored in dialing sequences. This determination is made by comparing the entered signal value with the stored signal value sequences. A match sequence is then supplied to the processor 130. A present invention is also operative with the stored signal value sequences which are stored in the memory of the computer system in an 800 area code. If the entered signal value sequence is not the entered sequence of the stored signal value sequences, then control continues to step 410 of the comparison, the entered signal value is provided to the memory of the stored signal value sequences, including numbers such as 800, 900, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674,

Apparatus 500 is a form of public telephone (e.g., a coin telephone), Stored Program Control Switching Apparatus 510 may be implemented as a first DCE, and the word "switch" may be interpreted, for example, as a Class 5 switch. Stored Program Control Switching Apparatus 510 may be implemented as a form of a Private Line 200 Stored Program Control Switching Apparatus 510 may also be implemented as a server 570 through which 520 is implemented. 520 may be, for example, a Class 5 switch. Other similar systems which are not intended to be confined in the art to a DTMF mode are not shown for purposes of clarity.

Stored Program Control Switching Apparatus 510 includes a call state 512. Call state 512 processes and stores dialing signals and is represented as a series of the first Originating Party Digit 501. Program state 513 includes mechanisms for processing originating signals which are called out by state 512. In class 511, however, instructions from program state 513 control processing of all dialing signals stored in call state 512.

Process 513 is a series of instructions which are to be called state 512. Instructions from program state 513 Under the control of program state 513, process 511 is able to determine whether a sufficient number of digits has been received by call state 512 to establish a connection to a remote switch for identification of a remote office, which may place a receiving or calling card. The contents of program state 513 may be updated from a remote terminal, e.g., a computer terminal. Software instructions for call processing may be added, deleted, or changed.

1. The above described program state 513 may include instructions for process 511 to evaluate the first digit groups. In particular, program state 513 may include instructions for implementation of any of the processes shown above. For example, process 513 may include instructions for receiving call state 512 information when dialing sequences such as long numbers in PABX, long numbers and TADs. It may also determine positions where 513 can include instructions for providing call state 512 information with the already dialing digits, then set long number functions on program state 513 to include signals for detecting call completion at the received call state 512. Corresponding call state 512 information of a plurality of dialing sequences is stored in a table. This table may be used to modify any of the signals set forth above with reference to FIG. 1. 4 bits of the extension number means set forth above for any identification may resolve the system illustrated by FIG. 3.

In an alternative embodiment of the present invention, Stored Program Control Switching Apparatus 510 is implemented in another form of a stand-alone or any other switch situated at any point along a telecommunication network or PDN and the algorithms set forth above are implemented for use at the switch which includes Stored Program Control Switching Apparatus 510. In such a configuration set forth above may be implemented within a group of Stored Program Control Switching Apparatus 510 at any point within a telecommunication network or a PDN.

As the invention has been described in terms of an exemplary embodiment, it is contemplated that it may be practiced as outlined above with modifications within the spirit and scope of the appended claims.

What is claimed:

1. A telecommunication apparatus for selectively providing an essential service to a telephone user, comprising:

4. A telecommunication apparatus for selectively providing an essential service to a telephone user, comprising: a transmitted dialing sequence which includes a first plurality of dialing signals, followed by a second plurality of in-line signals, followed by a third plurality of dialing signals, wherein said telephone call is processed through a telecommunication network which includes a communications apparatus for processing

means for evaluating said dialing sequence to determine receiving and control of the exchange code.

means for evaluating said dialing sequence to determine receiving and control of the exchange code.

means for evaluating said dialing sequence to determine receiving and control of the exchange code.

2. The telecommunication apparatus according to claim 1, wherein a switch means for evaluating said plurality of dialing signals and for means for evaluating said first plurality of dialing signals and for means for evaluating said second plurality of dialing signals and for means for evaluating said third plurality of dialing signals, wherein said switch means for evaluating said first plurality of dialing signals and for means for evaluating said second plurality of dialing signals and for means for evaluating said third plurality of dialing signals, wherein said switch means for evaluating said first plurality of dialing signals and for means for evaluating said second plurality of dialing signals and for means for evaluating said third plurality of dialing signals, wherein said switch means for evaluating said first plurality of dialing signals and for means for evaluating said second plurality of dialing signals and for means for evaluating said third plurality of dialing signals.

3. A method for dialing the operation of a telecommunication system which is provided to a telecommunication user by a switch capable of transmitting a sequence of signals which includes a first plurality of digits, followed by a second plurality of digits, followed by a third plurality of digits, followed by a control office exchange code to be telephoned to a telephone user or having said control office exchange code can be used, which said method comprising the steps:

(a) receiving said sequence of digits and dialing signals and processing said sequence of digits and dialing signals to determine a control office exchange code to be telephoned to a telephone user or having said control office exchange code can be used, which said method comprising the steps:

(a) receiving said sequence of digits and dialing signals and processing said sequence of digits and dialing signals to determine a control office exchange code to be telephoned to a telephone user or having said control office exchange code can be used, which said method comprising the steps:

(a) receiving said sequence of digits and dialing signals and processing said sequence of digits and dialing signals to determine a control office exchange code to be telephoned to a telephone user or having said control office exchange code can be used, which said method comprising the steps:

4. A method of controlling the operation of a telecommunication system according to claim 3, wherein step (a) includes the step of evaluating said first plurality of digits, step (b) includes the step of evaluating said second plurality of digits, and step (c) includes the step of evaluating said third plurality of digits, wherein said first plurality of digits are determined to be a first plurality of digits, wherein said second plurality of digits are determined to be a second plurality of digits, wherein said third plurality of digits are determined to be a third plurality of digits, wherein said first plurality of digits are determined to be a first plurality of digits, wherein said second plurality of digits are determined to be a second plurality of digits, wherein said third plurality of digits are determined to be a third plurality of digits.

EXHIBIT E



New York Telephone

A NYNEX Company

Building #147 Kennedy Avenue
Jamaica, New York 11430

April 16, 1992

J. M. Beitzer
Manager
THE PORT AUTHORITY BUS TERMINAL
625 Eighth Avenue
New York, New York 10018

Dear Jan,

In response to your letter dated March 26th, we are working toward implementing solutions within specified timelines to address 42nd Street Bus Terminal fraud issues. In developing software that will block specific international calls, we propose to screen the following:

All Calls Dialed:

- 10xxx - 01
- 950-10xx-01
- 1800 - xxx - xxxx - 01
- 800 - xxx - xxxx - 01
- 950 - 10xx - 809
- 1800 - xxx - xxxx - 809
- 800 - xxx - xxxx - 809

Also, instead of disabling the keypad as requested, we propose to reprogram the # and * keys. Use of either key would simulate an on-hook off-hook condition and generate a new dial tone therefore not permitting sequence dialing through a PBX.

We are anxious to proceed and request your concurrence with our method in dealing with PABT fraud as it modifies your original solution.

If I may be of assistance, please contact me on 718-632-8201.

Sincerely,

T. Pedersen
T. Pedersen

TCP:vp

- cc: D. Torres
- J. Chichester
- S. O'Connell
- J. Dunn
- B. Sorenson
- P. Schroeder ✓

EXHIBIT F

THE VERIZON TELEPHONE COMPANIES

TALENT F.C.C. NO. 01
Original Page 13-13

ACCESS SERVICES

10. Additional Engineering, Additional Lines and Miscellaneous Services (Cont'd)

10.3. Miscellaneous Services (Cont'd)

10.3.1 Presubscription (Cont'd)

(B) International Direct Dial Blocking Service (IDDB)

(1) International Direct Dial Blocking Service (IDDB) is an arrangement that prevents the use of certain line-side exchange services for the completion of international direct dialed calls. This arrangement recognizes and blocks, by routing such calls to a recorded announcement, any attempt to dial international direct dialed sequences of 011 or 10XXXXX (11).

International Direct Dial Blocking Service is available for use with the following line-side exchange services:

- Mexico
- Private Branch Exchange Service (PXS)
- Public Telecable Service
- Business Exchange
- Business ISDN

In addition, IDDB will be provided with other line-side services provided by a local exchange to all business premises where technically feasible and deemed locally desirable.

Line will be provided from suitably equipped serviceable wire centers as specified in the LOCAL EXCHANGE rules of AMERICAN TEL. AND TEL. SERVICE P.C.O. No. 4.

(2) Rate Regulations

Rate-making charges apply to International Direct Dial Blocking Service. No separate component charge will apply for the installation of IDDB service when it is installed in conjunction with the initial installation of an exchange service. A separate nonrecurring charge will apply when IDDB service is installed at a time subsequent to the initial installation of an exchange service.

Charges for International Direct Dial Blocking Service are set forth in 31.13 following.

Issued: April 13, 2001

L.P. 291

Effective: April 13, 2001

Vice President
2900 Fairview Park Drive, Tallahassee, FL 32310