STEVEN W. RITCHESON, ESQ (SBN 174062)
White Field, Inc.
9800 D Topanga Canyon Blvd. #347
Chatsworth, California 91311
Telephone: (818) 882-1030
Facsimile: (818) 337-0383
swritcheson@whitefieldinc.com

Attorneys for Plaintiff, OLYMPIC DEVELOPMENTS AG, LLC

UNITED STATES DISTRICT COURT

FOR THE CENTRAL DISTRICT OF CALIFORNIA

LOS ANGELES DIVISION

OLYMPIC DEVELOPMENTS AG, LLC,

Plaintiff,

v.

MICROSOFT CORPORATION, NINTENDO OF AMERICA, INC, SONY COMPUTER ENTERTAINMENT OF AMERICA, LLC, VALVE CORPORATION,

Defendants.

Case No. CV 10 8874 - SJO (VBKx)

COMPLAINT FOR PATENT INFRINGEMENT

Jury Trial Demanded

PLAINTIFF'S ORIGINAL COMPLAINT

Plaintiff Olympic Developments AG, LLC ("Plaintiff"), by and through its undersigned counsel, files this Original Complaint against Microsoft Corporation, Nintendo of America, Inc., Sony Computer Entertainment of America, LLC, and Valve Corporation (collectively "Defendants") as follows:

NATURE OF THE ACTION

1. This is a patent infringement action to stop Defendants' infringement of Plaintiff's United States Patent No. 5,475,585 entitled "*Transactional Processing System*" (the "'585 patent"; a copy of which is attached hereto as Exhibit A) and United States Patent No. 6,246,400 entitled "*Device for Controlling Remote Interactive Receiver*" (the "'400 patent"; a copy of which is attached hereto as Exhibit B) (collectively, "the patents-in-suit"). Plaintiff is the exclusive licensee of the '585 patent and '400 patent with respect to the Defendants. Plaintiff seeks injunctive relief and monetary damages.

PARTIES

2. Plaintiff is a limited liability company organized and existing under the laws of the State of Delaware. Plaintiff maintains its principal place of business at 1000 North West Street, Suite 1200, Wilmington, DE 19801. Plaintiff is the exclusive licensee of the '585 and '400 patents with respect to the Defendants, and possesses the right to sue for infringement and recover past damages.

3. Upon information and belief, Microsoft Corporation, ("Microsoft") is a corporation organized and existing under the laws of the State of Washington, with its principal place of business located at 1 Microsoft Way, Redmond, Washington 98052.

4. Upon information and belief, Nintendo of America, Inc. ("Nintendo") is a corporation organized and existing under the laws of the State of Washington, with its principal place of business located at 4600 150th Avenue NE, Redmond, Washington 98052.

5. Upon information and belief, Sony Computer Entertainment of America, LLC, ("SCEA") is a limited liability company organized and existing under the laws of the State of

Delaware, with its principal place of business located at 919 East Hillsdale Boulevard, Foster City, California 94404.

6. Upon information and belief, Valve Corporation ("Valve") is a corporation organized and existing under the laws of the State of Washington, with its principal place of business located at 8411 Preston Road, Suite 650, Dallas, Texas 75225.

JURISDICTION AND VENUE

7. This action arises under the Patent Laws of the United States, 35 U.S.C. § 1 *et seq.*, including 35 U.S.C. §§ 271, 281, 283, 284, and 285. This Court has subject matter jurisdiction over this case for patent infringement under 28 U.S.C. §§ 1331 and 1338(a).

8. The Court has personal jurisdiction over each Defendant because: each Defendant is present within or has minimum contacts with the State of California and the Central District of California; each Defendant has purposefully availed itself of the privileges of conducting business in the State of California and in the Central District of California; each Defendant has sought protection and benefit from the laws of the State of California; each Defendant regularly conducts business within the State of California and within the Central District of California; and Plaintiff's causes of action arise directly from Defendants' business contacts and other activities in the State of California and in the Central District of California.

9. More specifically, each Defendant, directly and/or through authorized intermediaries, ships, distributes, offers for sale, sells, and/or advertises (including the provision of an interactive web page) its products and services in the United States, the State of California, and the Central District of California. Upon information and belief, each Defendant has committed patent infringement in the State of California and in the Central District of California, has contributed to patent infringement in the State of California and in the Central District of California, and/or has induced others to commit patent infringement in the State of California and in the Central District of California. Each Defendant solicits customers in the State of California and in the Central District of California. Each Defendant has many paying customers who are residents of the State of California and the Central District of California and who each use each of

the respective Defendant's products and services in the State of California and in the Central District of California.

10. Venue is proper in the Central District of California pursuant to 28 U.S.C. §§ 1391 and 1400(b).

COUNT I – PATENT INFRINGEMENT

11. The '585 patent was duly and legally issued by the United States Patent and Trademark Office on December 12, 1995, after full and fair examination for systems and methods for purchasing products over a network. Plaintiff is the exclusive licensee of the '585 patent with respect to the Defendants, and possesses all rights of recovery under the '585 patent with respect to the Defendants, including the right to sue for infringement and recover past damages.

12. The '400 patent was duly and legally issued by the United States Patent and Trademark Office on June 12, 2001, after full and fair examination for systems for transactional system terminals. Plaintiff is the exclusive licensee of the '400 patent with respect to the Defendants, and possesses all rights of recovery under the '400 patent with respect to the Defendants, including the right to sue for infringement and recover past damages.

13. Plaintiff is informed and believes that Microsoft owns, operates, advertises, controls, sells, and otherwise provides hardware, software and websites for "online game and video services" including via the Microsoft Xbox 360 ("the Microsoft device") and Microsoft Xbox Live Marketplace ("the Microsoft service"), both available through www.xbox.com. Upon information and belief, Microsoft has infringed and continues to infringe one or more claims of the '585 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for purchasing products and services and processing corresponding financial transactions, including via the Microsoft service and Microsoft device. Upon information and belief, Microsoft has infringed and continues to infringe one or more claims of the '400 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for remotely selecting and receiving desired

programming selections, including via the Microsoft service and Microsoft device. More particularly, Plaintiff is informed and believes that Microsoft has and/or requires and/or directs users to access and/or view and/or purchase products from a remote programming system at the Xbox Live Marketplace via an XBox remote receiver device in a manner claimed in the patents-in-suit. Upon information and belief, Microsoft has also contributed to the infringement of one or more claims of the patents-in-suit by providing to users, in this district and elsewhere in the United States via the Microsoft service and the Microsoft device, software only useful for permitting users to purchase products and services from a plurality of available products and service and for processing corresponding financial transactions in real-time in a manner claimed by one or more claims of the patents-in-suit.

14. Plaintiff is informed and believes that Nintendo owns, operates, advertises, controls, sells, and otherwise provides hardware, software and websites for "online game and video services" including via the Nintendo Wii ("the Nintendo device") and Nintendo Wii Shop ("the Nintendo service"), both available through www.Nintendo.com. Upon information and belief, Nintendo has infringed and continues to infringe one or more claims of the '585 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for purchasing products and services and processing corresponding financial transactions, including via the Nintendo service and Nintendo device. Upon information and belief, Nintendo has infringed and continues to infringe one or more claims of the '400 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for remotely selecting and receiving desired programming selections, including via the Nintendo service and Nintendo device. More particularly, Plaintiff is informed and believes that Nintendo has and/or requires and/or directs users to access and/or view and/or purchase products from a remote programming system at the Nintendo Wii Shop Channel via a Wii remote receiver device in a manner claimed in the patents-in-suit. Upon information and belief, Nintendo has also contributed to the infringement of one or more claims of the patents-in-

suit by providing to users, in this district and elsewhere in the United States via the Nintendo service and the Nintendo device, software only useful for permitting users to purchase products and services from a plurality of available products and service and for processing corresponding financial transactions in real-time in a manner claimed by one or more claims of the patents-in-suit.

15. Plaintiff is informed and believes that SCEA owns, operates, advertises, controls, sells, and otherwise provides hardware, software and websites for "online game and video services" including via the Sony Playstation 3 ("the SCEA device") and Sony Playstation Store ("the SCEA service"), both available through www.playstation.com. Upon information and belief, SCEA has infringed and continues to infringe one or more claims of the '585 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for purchasing products and services and processing corresponding financial transactions, including via the SCEA service and SCEA device. Upon information and belief, SCEA has infringed and continues to infringe one or more claims of the '400 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for remotely selecting and receiving desired programming selections, including via the SCEA service and SCEA device. More particularly, Plaintiff is informed and believes that SCEA has and/or requires and/or directs users to access and/or view and/or purchase products from a remote programming system at the Playstation Store via a Playstation 3 remote receiver device in a manner claimed in the patents-in-suit. Upon information and belief, SCEA has also contributed to the infringement of one or more claims of the patents-in-suit by providing to users, in this district and elsewhere in the United States via the SCEA service and the SCEA device, software only useful for permitting users to purchase products and services from a plurality of available products and service and for processing corresponding financial transactions in real-time in a manner claimed by one or more claims of the patents-in-suit.

16. Plaintiff is informed and believes that Valve owns, operates, advertises, controls, sells, and otherwise provides software and websites for "online game services" including via the Valve Steam client ("the Valve software") and Steam Store ("the Valve website"), both available through www.steampowered.com. Upon information and belief, Valve has infringed and continues to infringe one or more claims of the '585 patent by making, using, providing, offering to sell, and selling (directly or through intermediaries), in this district and elsewhere in the United States, systems and methods for purchasing products and services and processing corresponding financial transactions, including via the Valve website and Valve software. More particularly, Plaintiff is informed and believes that Valve has and/or requires and/or directs users to access and/or view and/or purchase products from a remote programming system at the Steam Store via a Steam software client in a manner claimed in the '585 patent. Upon information and belief, Valve has also contributed to the infringement of one or more claims of the '585 patent by providing to users, in this district and elsewhere in the United States via the Valve website, software only useful for permitting users to purchase products and services from a plurality of available products and service and for processing corresponding financial transactions in real-time in a manner claimed by one or more claims of the '585 patent.

17. Each Defendant's aforesaid activities have been without authority and/or license from Plaintiff.

18. Plaintiff is entitled to recover from the Defendants the damages sustained by Plaintiff as a result of the Defendants' wrongful acts in an amount subject to proof at trial, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

19. Defendants' infringement of Plaintiff's exclusive rights under the '585 patent and the '400 patent will continue to damage Plaintiff, causing irreparable harm for which there is no adequate remedy at law, unless enjoined by this Court.

JURY DEMAND

20. Plaintiff hereby requests a trial by jury pursuant to Rule 38 of the Federal Rules of Civil Procedure.

PRAYER FOR RELIEF

Plaintiff respectfully requests that the Court find in its favor and against Defendants, and that the Court grant Plaintiff the following relief:

A. An adjudication that one or more claims of the '585 patent have been infringed, either literally and/or under the doctrine of equivalents, by one or more Defendants and/or by others to whose infringement Defendants have contributed and/or by others whose infringement has been induced by Defendants;

B. An adjudication that one or more claims of the '400 patent have been infringed, either literally and/or under the doctrine of equivalents, by one or more Defendants and/or by others to whose infringement Defendants have contributed and/or by others whose infringement has been induced by Defendants;

C. An award to Plaintiff of damages adequate to compensate Plaintiff for the Defendants' acts of infringement together with pre-judgment and post-judgment interest;

D. A grant of permanent injunction pursuant to 35 U.S.C. § 283, enjoining the Defendants from further acts of (1) infringement, (2) contributory infringement, and (3) actively inducing infringement with respect to the claims of the '585 patent and the '400 patent;

E. That this Court declare this to be an exceptional case and award Plaintiff its reasonable attorneys' fees and costs in accordance with 35 U.S.C. §285; and

F. Any further relief that this Court deems just and proper.

Respectfully submitted,
WHITE FIELD, INC.

Dated: November 18, 2010

Steven W. Ritcheson,
Attorney for Plaintiff
Olympic Developments AG, LLC

Exhibit A

United States Patent No. 5,475,585

US00547558

United States Patent [19]

Bush

[11] **Patent Number: 5,475,585**

[45] **Date of Patent: Dec. 12, 1995**

[54] TRANSACTIONAL PROCESSING SYSTEM

[76] Inventor: **Thomas A. Bush**, 310 E. 85th St. Apt. 40, New York, N.Y. 10028

[21] Appl. No.: **191,143**

[22] Filed: **Feb. 2, 1994**

Related U.S. Application Data

[63] Continuation of Ser. No. 591,380, Oct. 1, 1990, abandoned.

[51] **Int. Cl.**[6] **G06F 153/00**

[52] **U.S. Cl.** **364/401**; 364/403; 364/407

[58] **Field of Search** 364/401, 403, 364/408, 407; 358/84; 235/380, 492

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,150,254	4/1979	Schussler	179/2 TV
4,289,930	9/1981	Connolly	179/2 TV
4,359,631	11/1982	Lockwood et al.	235/381
4,424,572	1/1984	Lorig	364/900
4,450,477	3/1984	Lovett .	
4,451,701	5/1984	Bendig	179/2 TV
4,496,943	1/1985	Greenblatt	340/711
4,591,906	5/1986	Morales-Garza	358/84
4,654,482	3/1987	DeAngelis .	
4,704,725	11/1987	Harvey et al.	380/9
4,712,191	12/1987	Penna	364/900
4,720,849	1/1988	Kou Tayama	379/90
4,727,243	2/1988	Sauar	235/379
4,739,510	4/1988	Jeffers et al.	380/15
4,755,871	7/1988	Morales-Garza	358/84
4,755,872	7/1988	Bestler et al.	358/86
4,789,863	12/1988	Bush	340/825.35
4,794,530	12/1988	Yukiura et al. .	
4,807,023	2/1989	Bestler et al.	358/86
4,833,710	5/1989	Hirshima	380/20
4,845,636	7/1989	Walker	364/479

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

0010399 4/1980 European Pat. Off. .

OTHER PUBLICATIONS

"Touchcom Interactive Video Disc Catalog" *News and Notes Video Disc*, Oct. 1985 vol. 5 No. 5 pp. 343–345.

"Setting up Shop on Computer Screens" *Nation's Business* Mar. 1984, pp. 57–58.

IBM Technical Disclosure Bulletin, vol. 25, No. 11B, Apr. 1983, New York US, pp. 5892–5893.

Questions and Answers About Pay TV, Ira Kamen, Howard W. Sams & Co. 1983, pp. 103–106, Chapters 4–7.

"Pay to View as You Fly", David Lachenbruch, *Radio–Electronics*, Dec., 1989.

"New Concepts of Addressability," *PayPerViews*, pp. 10–14, Dec., 1989.

"Audio Response Units", *PayPerViews*, pp. 19–22, Sep. 1989.

"The PPV Billing Challenge is Keeping It Simple While Obtaining Valuable Marketing Information" , *Cablevision*, at 49, Jan. 15, 1990.

"The Application of National ANI to Pay–Per–View Ordering", Thomas Neville, *NCTA Technical Papers*, 1988.

(List continued on next page.)

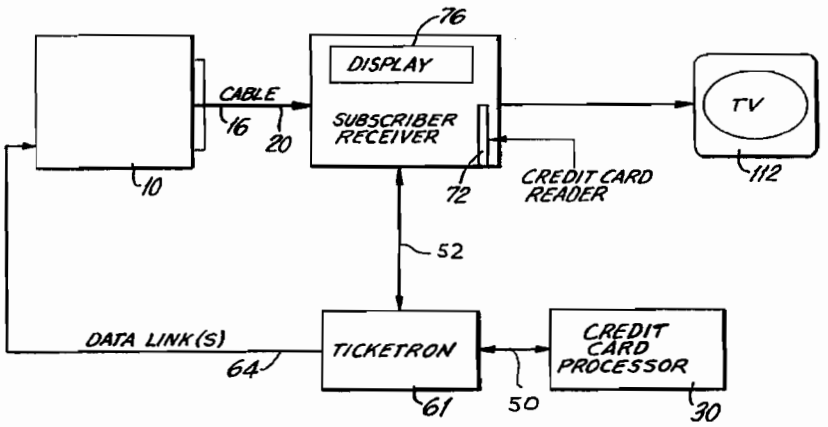
Primary Examiner—Donald E. McElheny, Jr.

Attorney, Agent, or Firm—Morgan & Finnegan

[57] **ABSTRACT**

A transactional processing system is used in conjunction with a transmitting source. The system allows for real-time authorization of payments for a plurality of products and services made available by the transmitting source. A video menu is sent to a receiver representing a list of the available products and services. The receiver contains a credit or debit card reader and transmits financial account information, as well as the selection from the menu, via a modem to a payment processor. The payment processor verifies the programming selection and account information and transmits an authorization signal to the vendor or service provider. The payment processor would verify financial account information and forward payment authorization to a financial institution. The vendor, in turn sends the selected product to the consumer upon receiving payment from the financial institution.

27 Claims, 10 Drawing Sheets



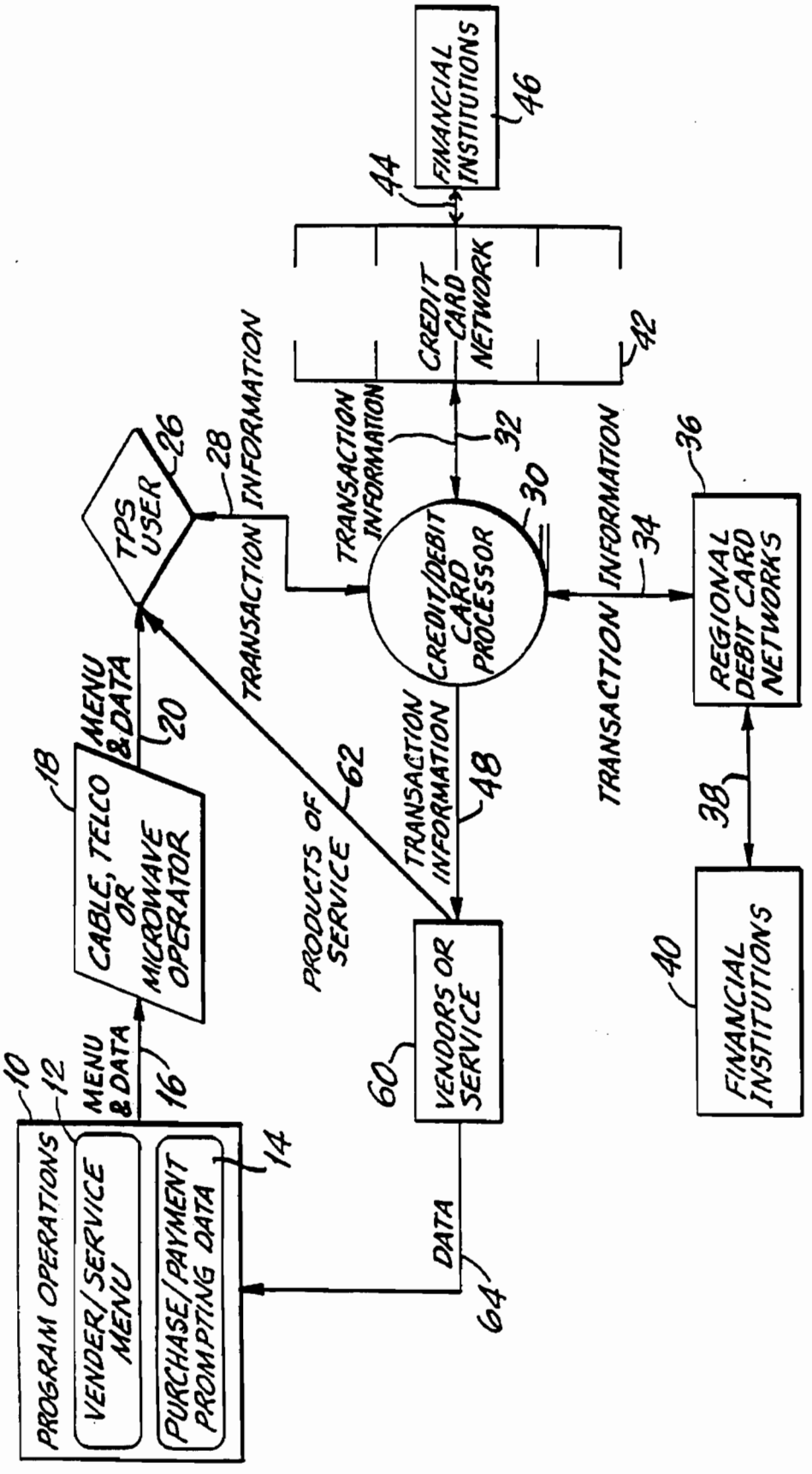
U.S. PATENT DOCUMENTS

4,873,662	10/1989	Sargent	364/400
4,893,248	1/1990	Pitts et al.	364/464.01
4,928,177	5/1990	Martinez	358/142
4,947,028	8/1990	Gorog	235/381
5,020,129	5/1991	Martin et al.	455/4
5,042,062	8/1991	Lee et al.	379/54
5,060,068	10/1991	Lindstrom	358/185
5,072,103	12/1991	Nara	239/492
5,093,718	3/1992	Hoarty et al.	358/84
5,151,782	9/1992	Ferraro	358/86
5,191,410	3/1993	McCalley et al.	358/86

OTHER PUBLICATIONS

"System Will Enable Customer to Establish 'Credit Bank'", *communications Daily*, Aug. 15, 1990.

"FCC Plan to Set Up 2-Way TV", Edmund L. Andrews, *New York Times*, Business Day, p. C1, Jan. 11, 1991.


PROGRAM OPERATIONS
VENDER/SERVICE MENU
PURCHASE/PAYMENT PROMPTING DATA
MENU & DATA
CABLE, TELCO OR MICROWAVE OPERATOR
MENU & DATA
TPS USER
TRANSACTION INFORMATION
CREDIT/DEBIT CARD PROCESSOR
TRANSACTION INFORMATION
CREDIT CARD NETWORK
FINANCIAL INSTITUTIONS
TRANSACTION INFORMATION
REGIONAL DEBIT CARD NETWORKS
FINANCIAL INSTITUTIONS
TRANSACTION INFORMATION
PRODUCTS OF SERVICE
VENDORS OR SERVICE
DATA
10
12
14
16
18
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26
28
30
32
34
36
38
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42
44
46
48
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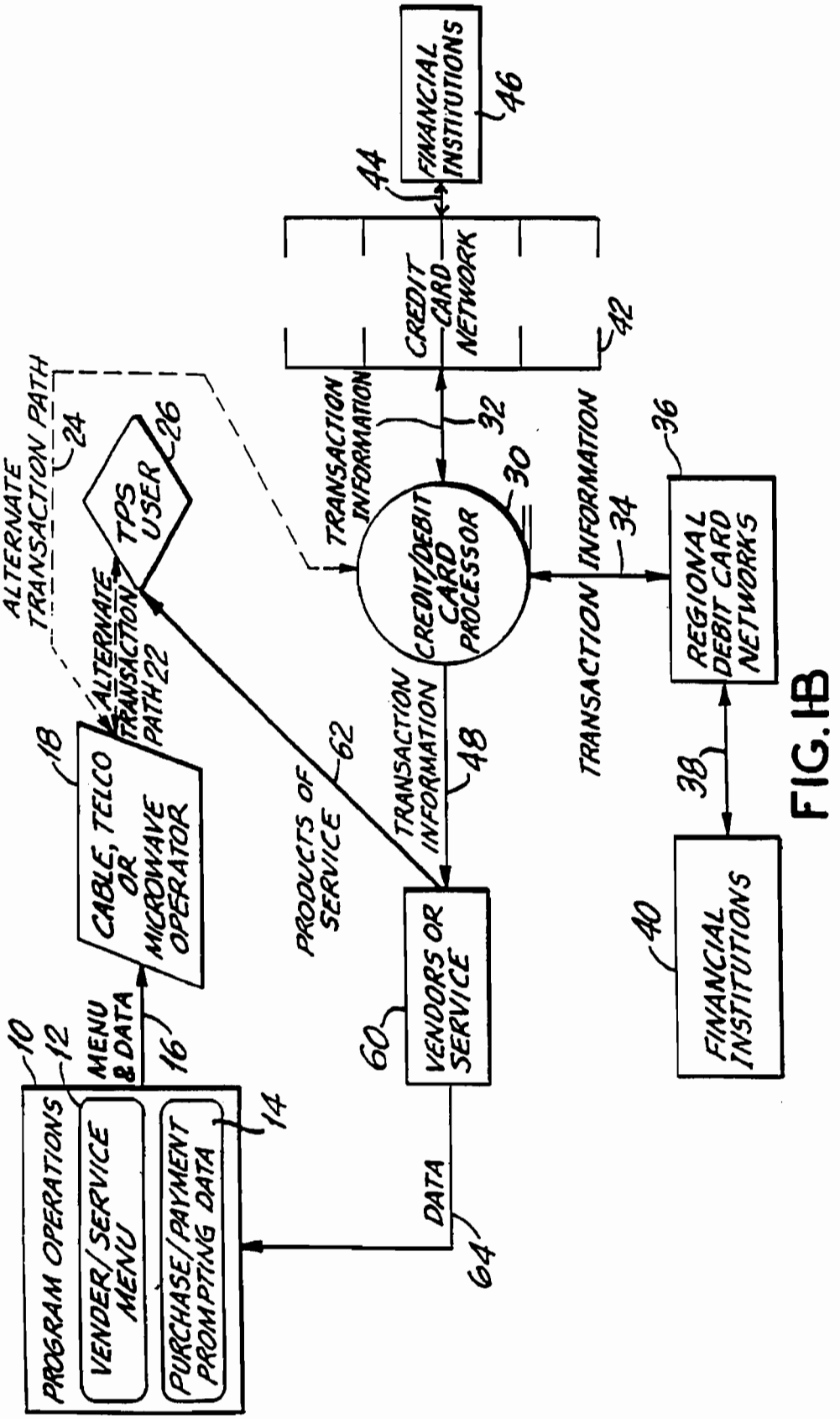
62
64

FIG. 1A


PROGRAM OPERATIONS
VENDER/SERVICE MENU
PURCHASE/PAYMENT PROMPTING DATA
MENU & DATA
CABLE, TELCO OR MICROWAVE OPERATOR
ALTERNATE TRANSACTION PATH
TPS USER
ALTERNATE TRANSACTION PATH
PRODUCTS OF SERVICE
VENDORS OR SERVICE
DATA
TRANSACTION INFORMATION
CREDIT/DEBIT CARD PROCESSOR
TRANSACTION INFORMATION
REGIONAL DEBIT CARD NETWORKS
FINANCIAL INSTITUTIONS
TRANSACTION INFORMATION
CREDIT CARD NETWORK
FINANCIAL INSTITUTIONS
10
12
14
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44
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FIG. 1B

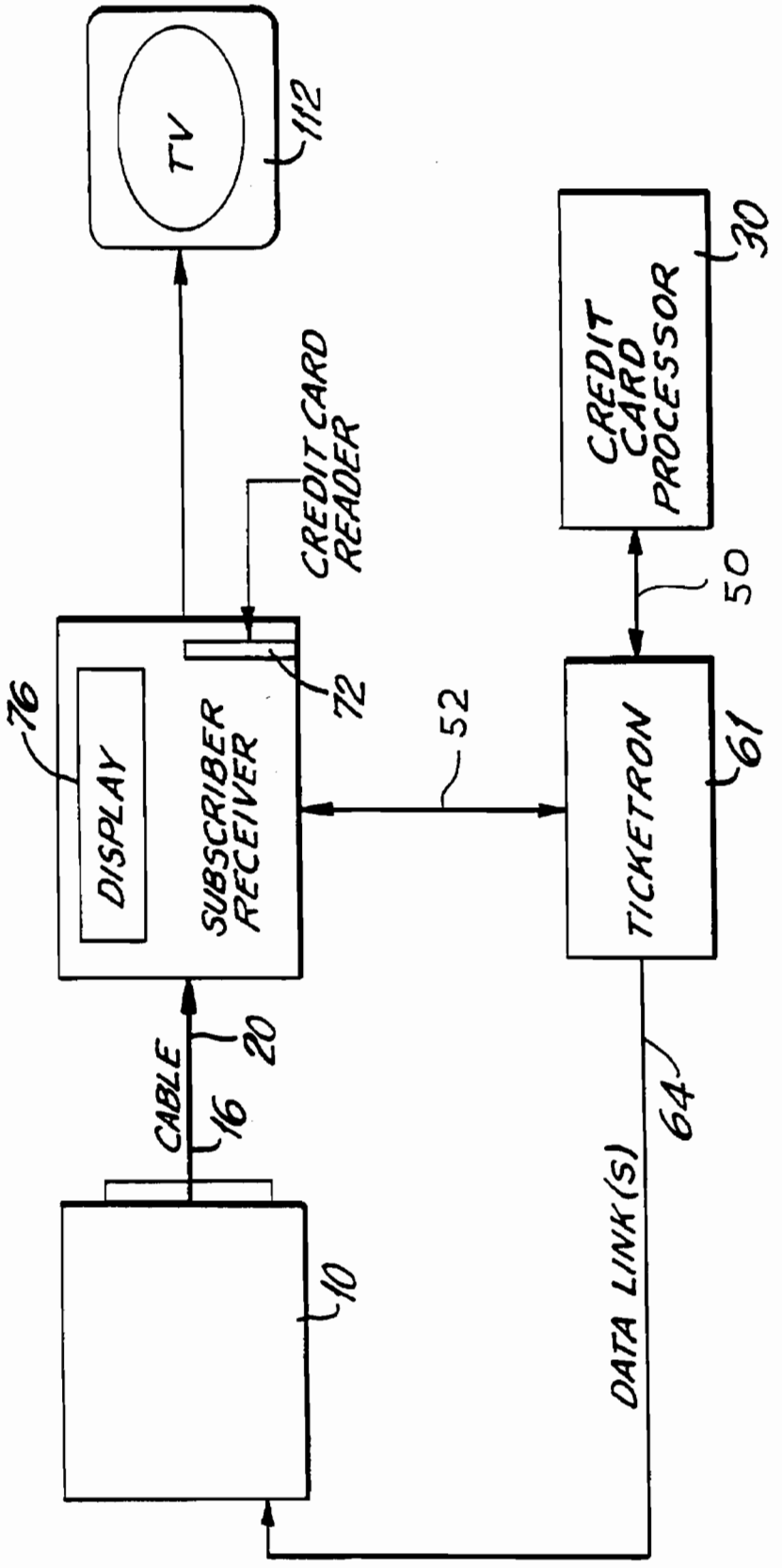

TV
112
CREDIT CARD READER
CREDIT CARD PROCESSOR
30
50
76
DISPLAY
SUBSCRIBER RECEIVER
72
52
TICKETRON
61
CABLE
16
20
64
DATA LINK(S)
10

FIG.2

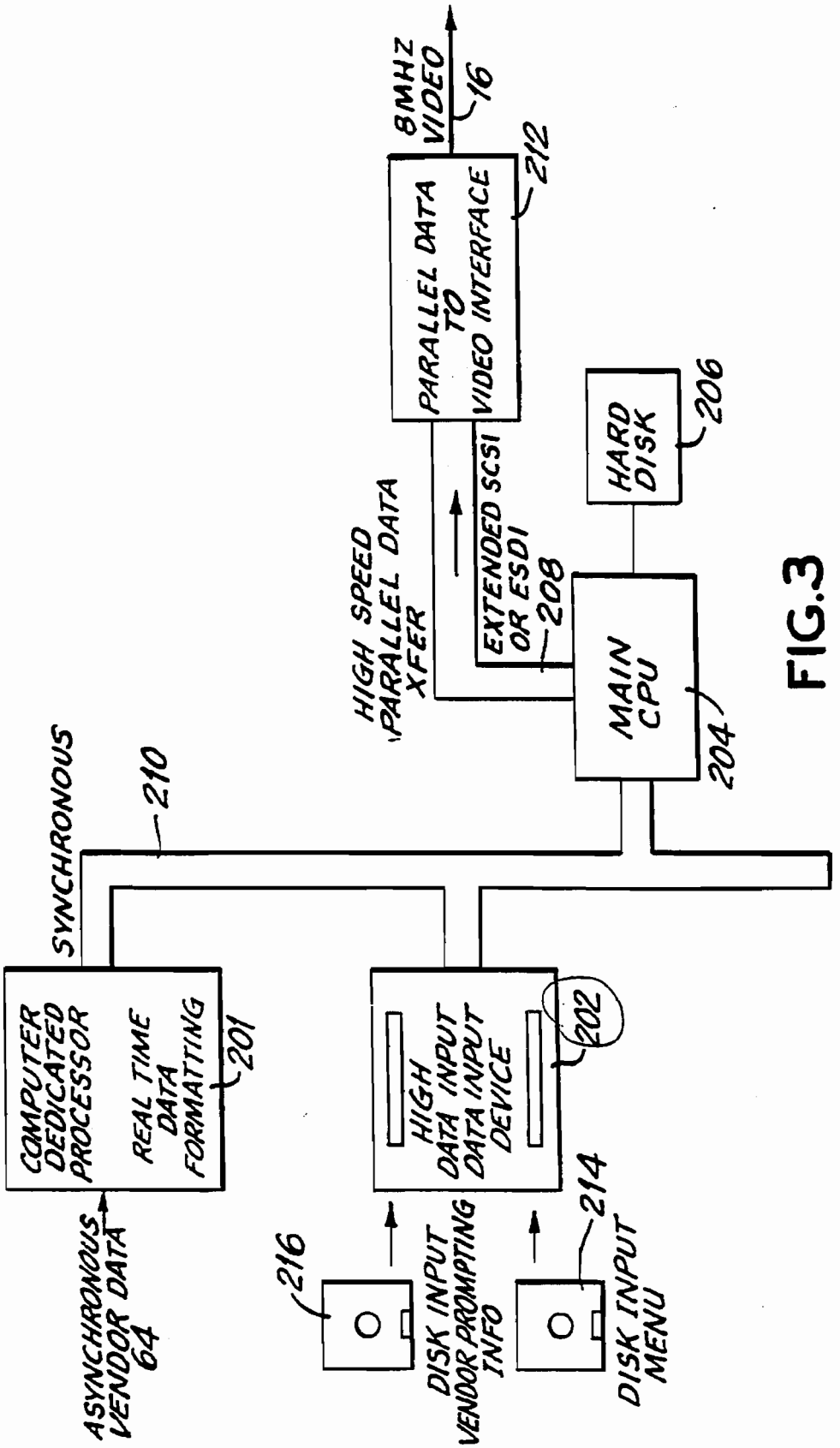

8MHZ VIDEO
16
PARALLEL DATA TO VIDEO INTERFACE
212
HARD DISK
206
HIGH SPEED PARALLEL DATA XFER
EXTENDED SCSI OR ESDI
208
MAIN CPU
204
SYNCHRONOUS
210
COMPUTER DEDICATED PROCESSOR
REAL TIME DATA FORMATTING
201
HIGH DATA INPUT DATA INPUT DEVICE
202
ASYNCHRONOUS VENDOR DATA 64
216
DISK INPUT VENDOR PROMPTING INFO
214
DISK INPUT MENU

FIG.3

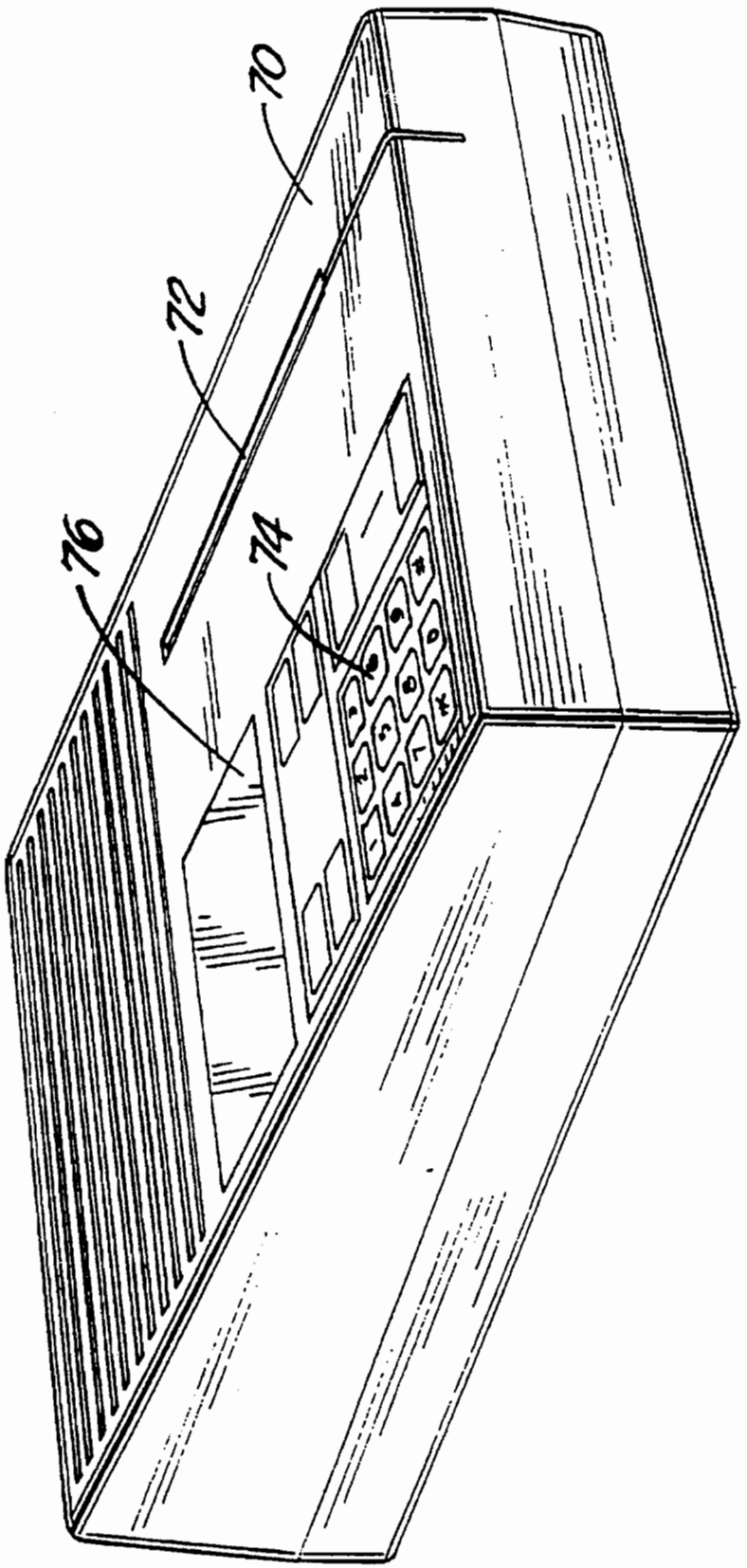


FIG.4

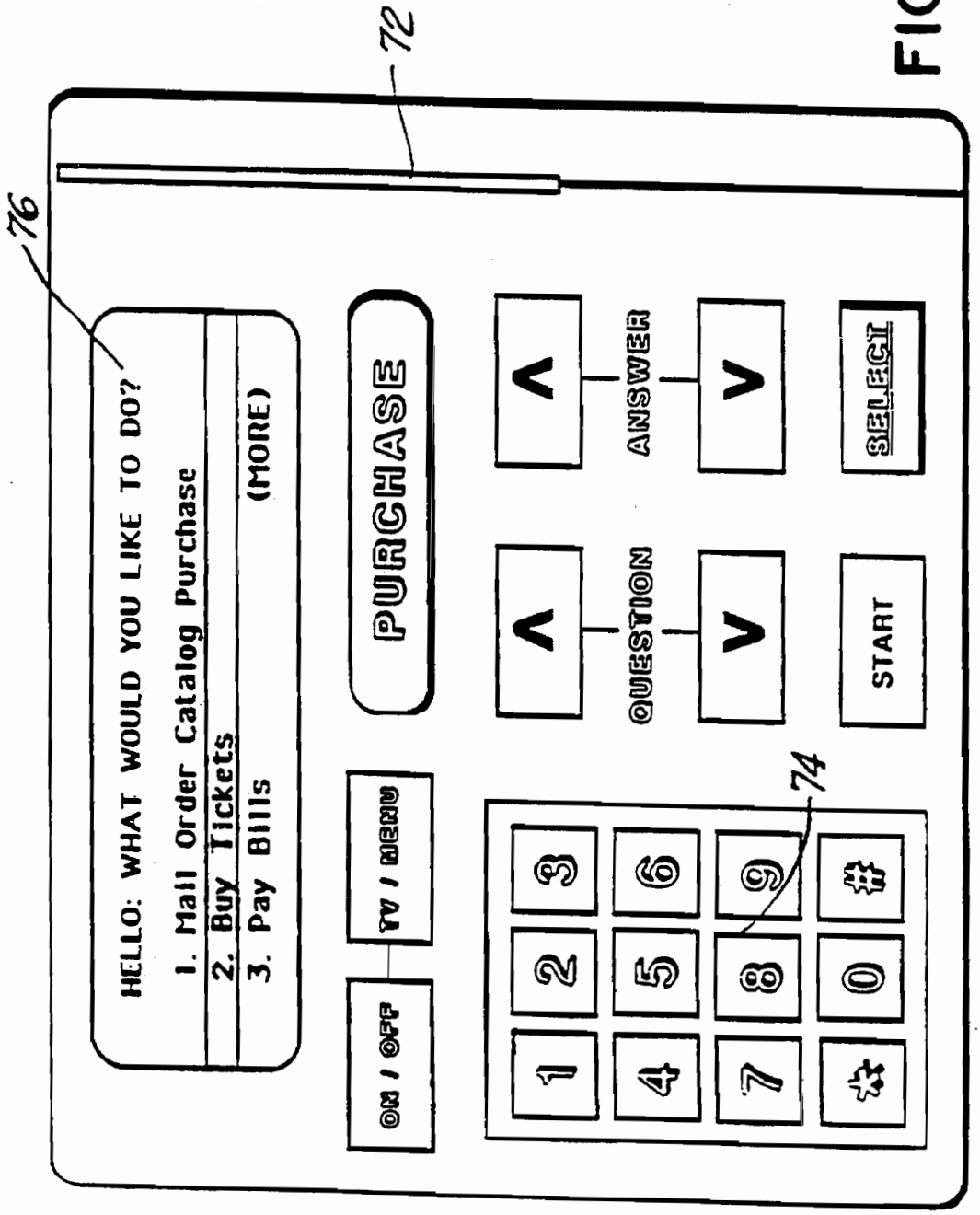

72
76
HELLO: WHAT WOULD YOU LIKE TO DO?
1. Mail Order Catalog Purchase
2. Buy Tickets
3. Pay Bills
(MORE)
PURCHASE
ON / OFF
TV / MENU
1
2
3
4
5
6
7
8
9
*
0
#
74
QUESTION
ANSWER
START
SELECT

FIG.5

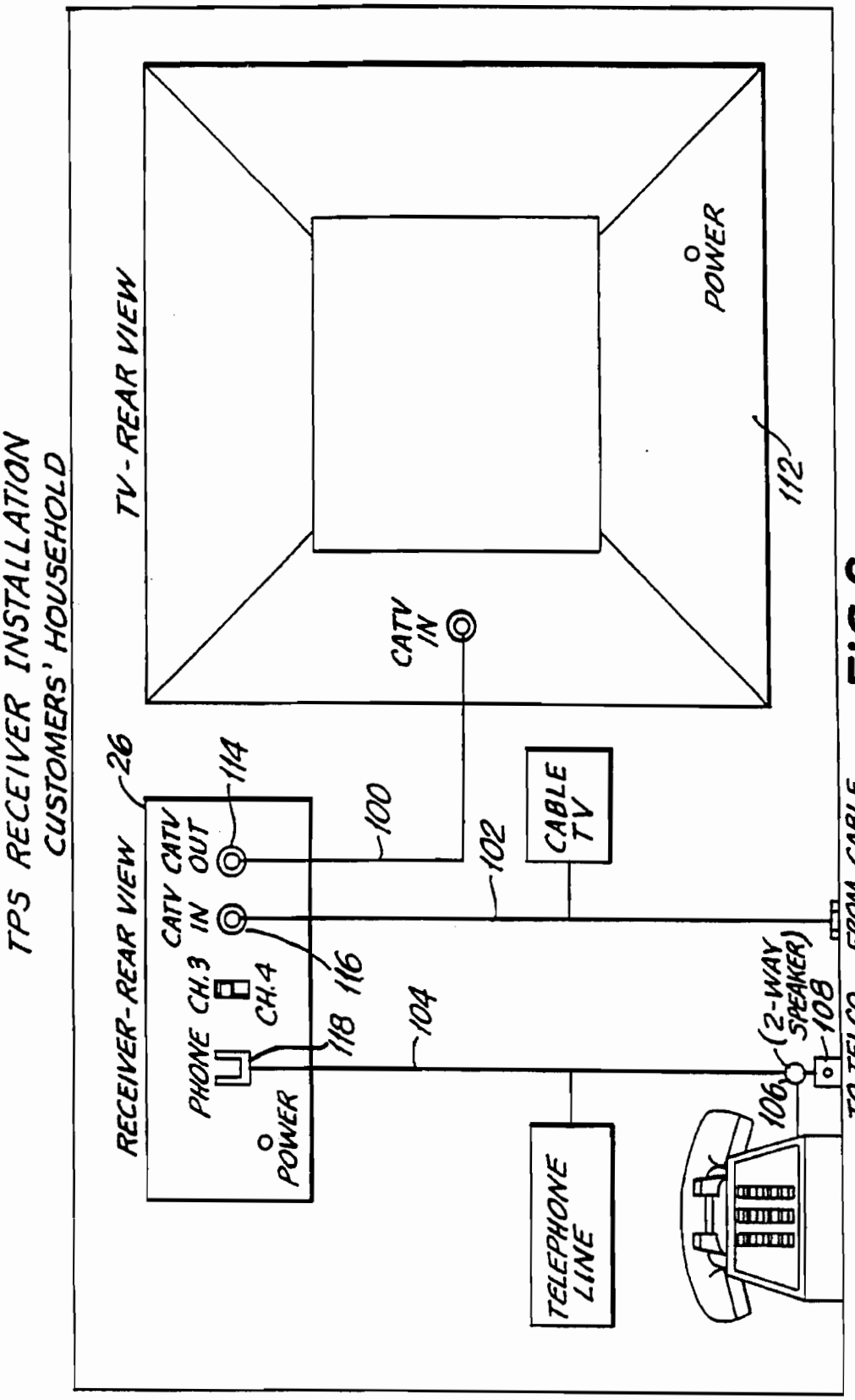

TPS RECEIVER INSTALLATION
CUSTOMERS' HOUSEHOLD
TV - REAR VIEW
POWER
112
CATV IN
RECEIVER-REAR VIEW
26
CATV IN
CATV OUT
114
100
102
CABLE TV
PHONE CH.3
CH.4
116
118
104
POWER
(2-WAY SPEAKER)
108
106
TO TELCO
FROM CABLE OPERATOR
TELEPHONE LINE

FIG.6

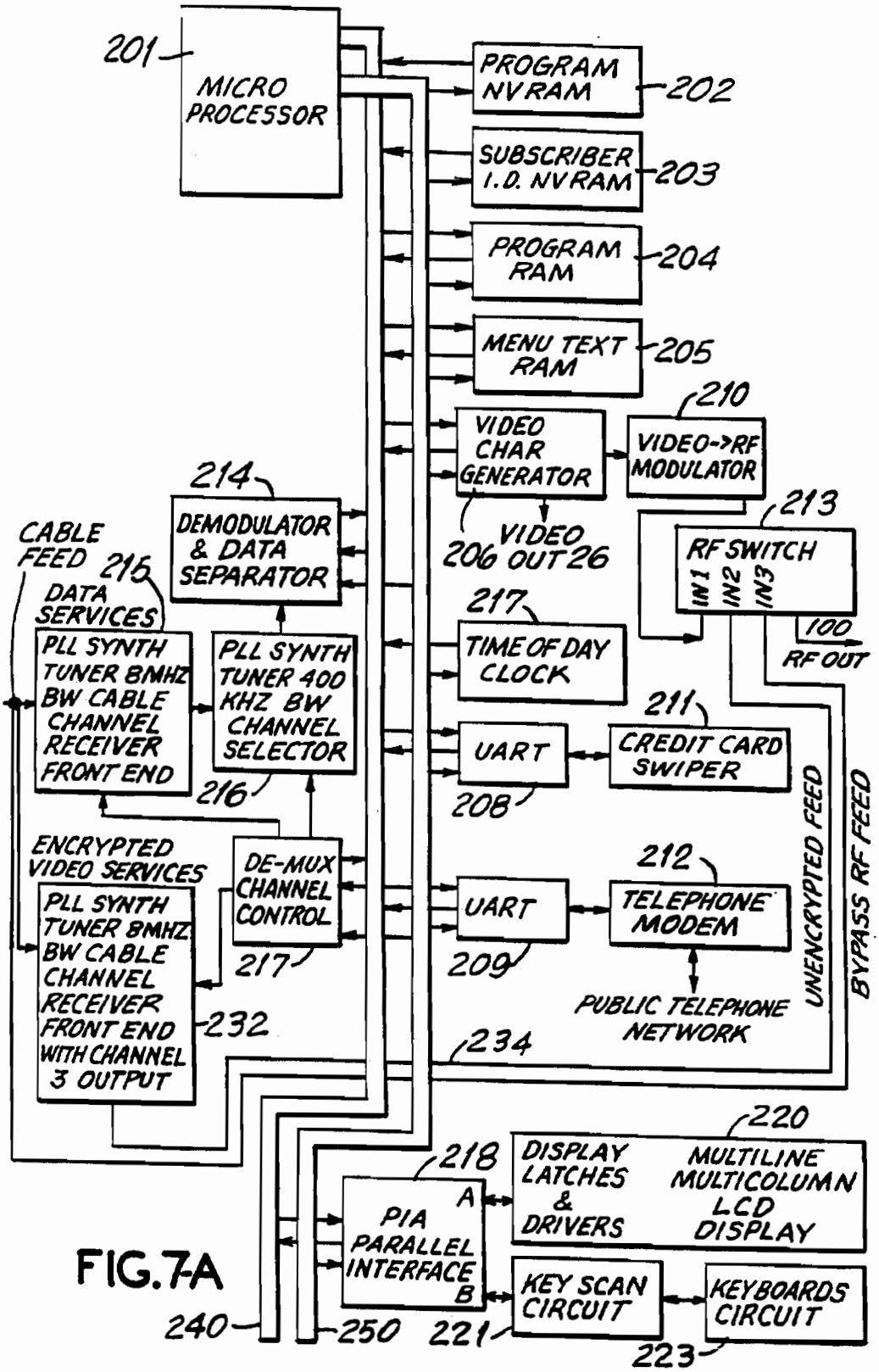

201
MICRO PROCESSOR
PROGRAM NVRAM
202
SUBSCRIBER I.D. NVRAM
203
PROGRAM RAM
204
MENU TEXT RAM
205
VIDEO CHAR GENERATOR
210
VIDEO->RF MODULATOR
214
DEMODULATOR & DATA SEPARATOR
CABLE FEED
215
DATA SERVICES
VIDEO OUT 26
206
213
RF SWITCH
IN1 IN2 IN3
100
RF OUT
217
TIME OF DAY CLOCK
PLL SYNTH TUNER 8MHZ BW CABLE CHANNEL RECEIVER FRONT END
PLL SYNTH TUNER 400 KHZ BW CHANNEL SELECTOR
216
211
UART
CREDIT CARD SWIPER
208
ENCRYPTED VIDEO SERVICES
DE-MUX CHANNEL CONTROL
212
UART
TELEPHONE MODEM
209
PUBLIC TELEPHONE NETWORK
UNENCRYPTED FEED
BYPASS RF FEED
PLL SYNTH TUNER 8MHZ BW CABLE CHANNEL RECEIVER FRONT END WITH CHANNEL 3 OUTPUT
232
234
220
218
A
PIA PARALLEL INTERFACE
B
DISPLAY LATCHES & DRIVERS
MULTILINE MULTICOLUMN LCD DISPLAY
KEY SCAN CIRCUIT
KEYBOARDS CIRCUIT
240
250
221
223

FIG. 7A

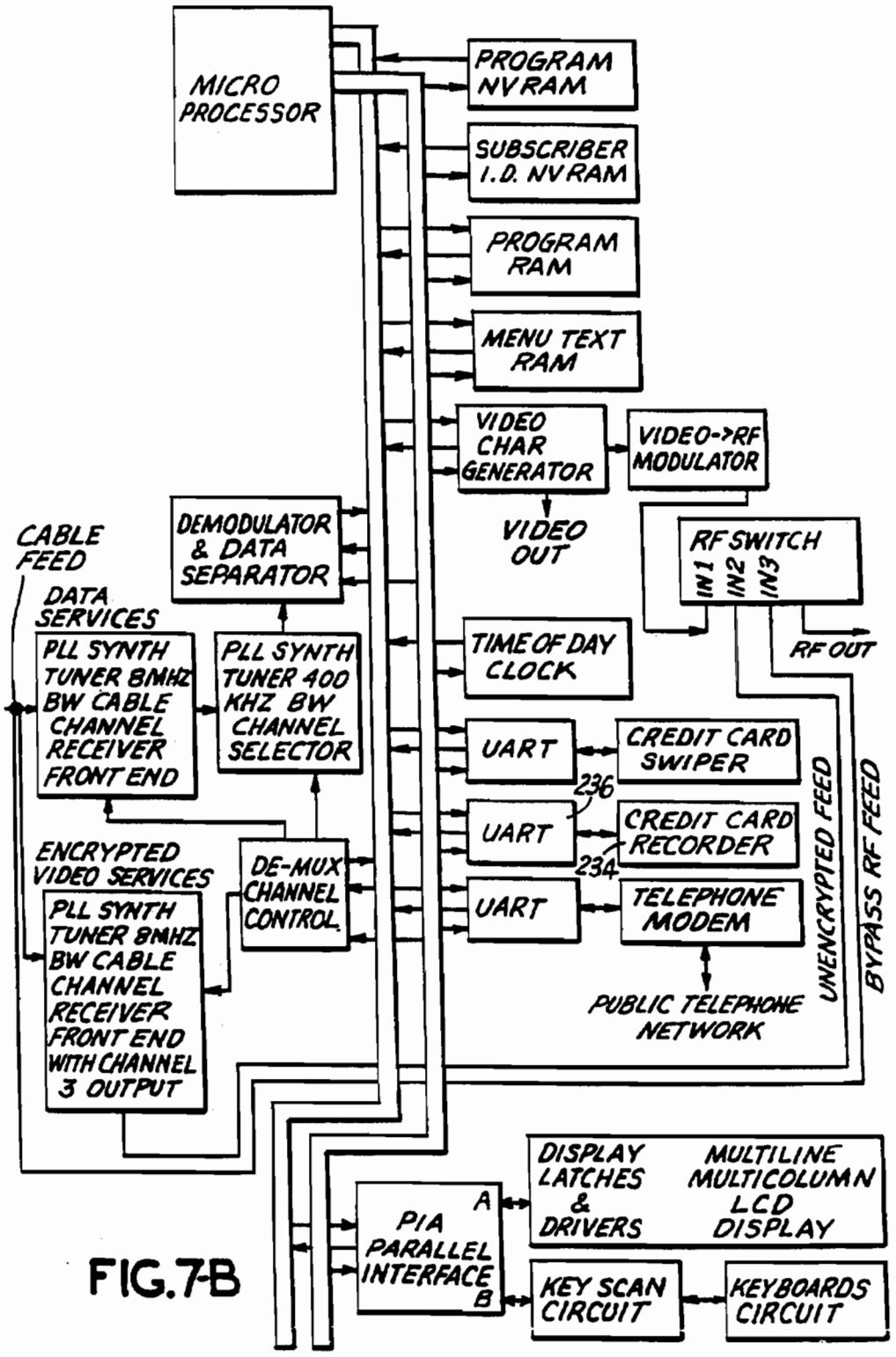

MICRO PROCESSOR
PROGRAM NVRAM
SUBSCRIBER I.D. NVRAM
PROGRAM RAM
MENU TEXT RAM
VIDEO CHAR GENERATOR
VIDEO->RF MODULATOR
VIDEO OUT
RF SWITCH IN1 IN2 IN3
RF OUT
DEMODULATOR & DATA SEPARATOR
CABLE FEED
DATA SERVICES
PLL SYNTH TUNER 8MHZ BW CABLE CHANNEL RECEIVER FRONT END
PLL SYNTH TUNER 400 KHZ BW CHANNEL SELECTOR
TIME OF DAY CLOCK
UART
CREDIT CARD SWIPER
236
UART
CREDIT CARD RECORDER
234
UART
TELEPHONE MODEM
PUBLIC TELEPHONE NETWORK
UNENCRYPTED FEED
BYPASS RF FEED
ENCRYPTED VIDEO SERVICES
DE-MUX CHANNEL CONTROL
PLL SYNTH TUNER 8MHZ BW CABLE CHANNEL RECEIVER FRONT END WITH CHANNEL 3 OUTPUT
A
PIA PARALLEL INTERFACE
B
DISPLAY LATCHES & DRIVERS
MULTILINE MULTICOLUMN LCD DISPLAY
KEY SCAN CIRCUIT
KEYBOARDS CIRCUIT

FIG. 7-B

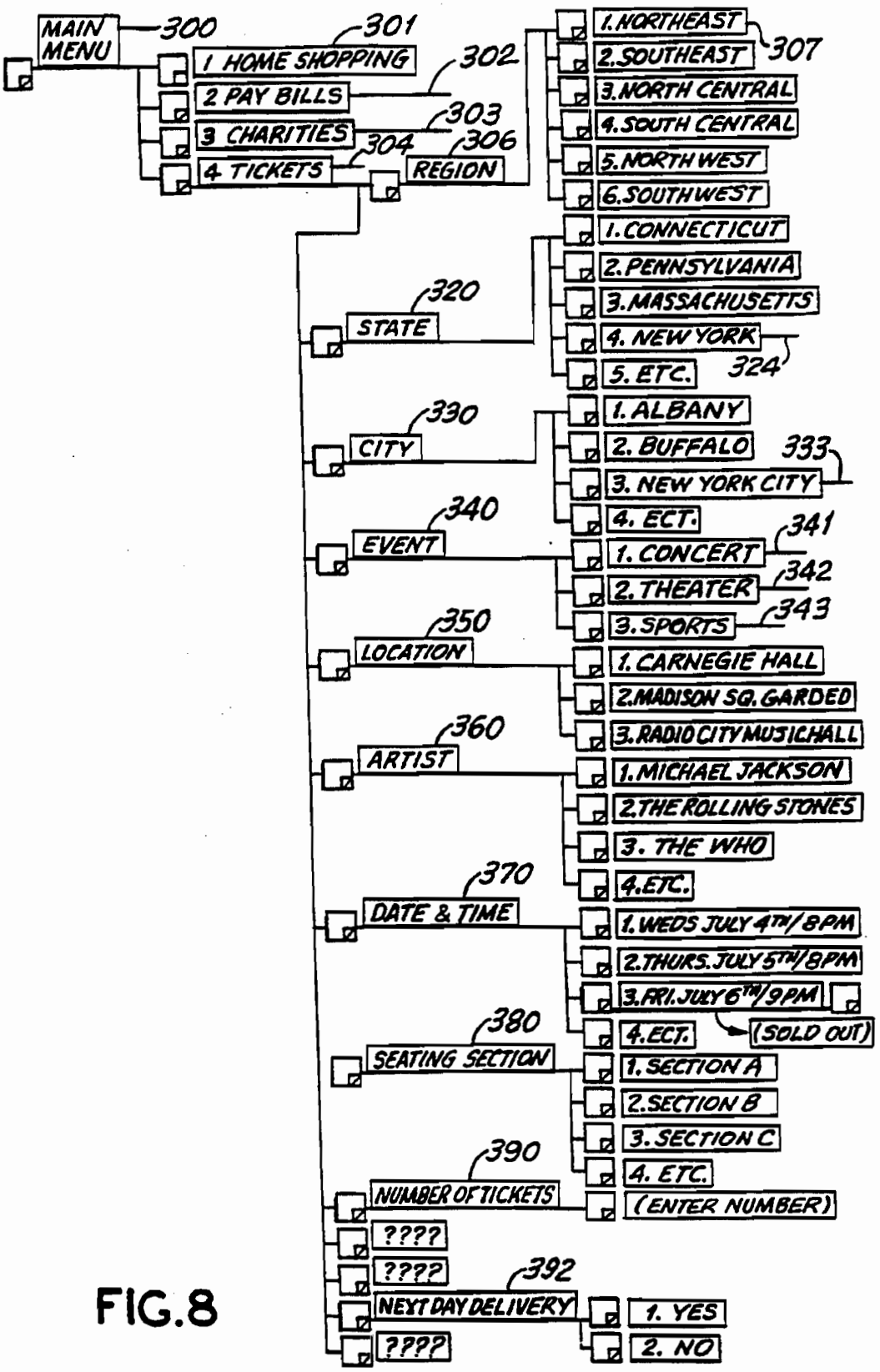

MAIN MENU
300
1 HOME SHOPPING
301
2 PAY BILLS
302
3 CHARITIES
303
4 TICKETS
304
REGION
306
1. NORTHEAST
2. SOUTHEAST
307
3. NORTH CENTRAL
4. SOUTH CENTRAL
5. NORTH WEST
6. SOUTHWEST
STATE
320
1. CONNECTICUT
2. PENNSYLVANIA
3. MASSACHUSETTS
4. NEW YORK
5. ETC.
324
CITY
330
1. ALBANY
2. BUFFALO
333
3. NEW YORK CITY
4. ECT.
EVENT
340
1. CONCERT
341
2. THEATER
342
3. SPORTS
343
LOCATION
350
1. CARNEGIE HALL
2. MADISON SQ. GARDED
3. RADIO CITY MUSICHALL
ARTIST
360
1. MICHAEL JACKSON
2. THE ROLLING STONES
3. THE WHO
4. ETC.
DATE & TIME
370
1. WEDS JULY 4TH/8PM
2. THURS. JULY 5TH/8PM
3. FRI. JULY 6TH/9PM
4. ECT.
(SOLD OUT)
SEATING SECTION
380
1. SECTION A
2. SECTION B
3. SECTION C
4. ETC.
NUMBER OF TICKETS
390
(ENTER NUMBER)
????
????
NEXT DAY DELIVERY
392
1. YES
2. NO
????

FIG.8

TRANSACTIONAL PROCESSING SYSTEM

This is a continuation of application Ser. No. 07/591,380, filed on Oct. 1, 1990 now abandoned.

BACKGROUND OF THE INVENTION

The advent of Cable transmission has opened up an extensive network of pay-per-selection markets to the consumer. A complete array of visual and audio entertainments from movies to live and pre-recorded concerts and sporting events can now be brought directly into the consumer's home. Additionally, the cable viewer has access to a variety of goods and services via several shopping channels.

Presently, the home market is restricted by the amount of time required to complete a pay-per-selection transaction. If an individual desires to purchase a good or a service, he or she must first contact the system operator, place the order, and then provide the operator with credit card information. The operator, in turn, must then contact the consumer's financial institution to verify the billing information provided by the consumer. Once the system operator has been assured of receiving payment for the desired goods or services, then the consumer can receive the chosen goods or services. Due to the interaction between the consumer and the operator, efficiency of the system would be degraded and a resulting built-in capacity would limit the number of transactions.

Alternatively, the operator can merely collect billing information and process it in a batch method at selected intervals. Although this method is faster than clearing each transaction individually, the operator will be exposed to a certain number of uncollectible transactions.

Accordingly, there exists a need for a transactional processing system which would allow for efficient, real-time authorization of consumer transaction for a wide variety of services and products.

SUMMARY OF THE INVENTION

With the foregoing in mind it is an object of this invention to provide a new and improved real-time transactional processing system.

It is a further object of this invention to provide a non-interactive system where providing merchandise or services would be both convenient for the consumer and reliable for the retailer.

It is still a further object of this invention to provide a convenient billing process where the need for mailing bills or for interacting with a service operator is removed.

It is still another object of this invention to provide a real-time credit authorization, thereby assuring payment on every transaction and eliminating batch or interactive billing processes with the vendor or service provider.

The present invention comprises a transmitting source, a receiver and a transaction processor. The Source broadcasts one or many menus over a transmission channel, e.g., a T.V. cable channel. The consumer would have a wide variety of options to choose from the menu, depending on the available services provided by the source. The menu received by the customer could list many different products or services available to pay for, for example; (1) paying for cable bill; (2) paying utility bills; (3) paying bills for merchandise purchased; (4) purchasing entertainment, concert or sporting event tickets; (6) purchasing from any mail order catalog; (7) donating to fund raising events.

The system's receiver is in communication with the transmitting source and is also linked to a transaction processor. The transaction processor, verifies the consumer's financial data, authorizes the proposed transaction and enables the consumer to complete the desired transaction.

The receiver is equipped with a card reader for, by way of example, a bank issued credit or debit card, to enable the receiver to obtain and transmit information about an individual's account to the transaction processor. The consumer selects an item from the menu, and the receiver then transmits the information corresponding to that selection, as well as consumer's financial account information, to the transaction processor via a modem. The transaction processor then verifies the consumer's financial information, and provides real-time authorization of payment for the selection. Next, the transaction processor (if not a financial institution) would transmit a payment authorization signal to a financial institution. The financial institution in turn pays the retailer. The retailer could then send the consumer, the ordered product or service, or a receipt for the paid bill.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1**(A) is a block diagram of Transactional Processing System (TPS);

FIG. **1**(B) is block diagram of an alternate embodiment of Transactional Processing System;

FIG. **2** is a block diagram of a TPS for real-time services requiring continuous update.

FIG. **3** is a block diagram of a TPS transmission system.

FIG. **4** is a diagram of Transactional Processing System key-box.

FIG. **5** is a top view diagram of Transactional Processing System receiver.

FIG. **6** is a diagram of receiver installation.

FIG. **7**A is a block diagram of the operation of Transactional Processing System receiver.

FIG. **7**B is a block diagram of the operation of Transactional Processing System receiver with a credit card recorder option.

FIG. **8**. is a flow chart of interaction between consumer and a typical menu.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings in which like numeral represent like components, FIG. **1**. illustrates a block diagram of Transactional Processing System (TPS). A Transmitting source **10** would broadcast a signal representing a menu. In the preferred embodiment this signal is video. The transmitting source **10**, therefore, broadcasts one or many video menus, offering the consumer the option to pay for either a product or a service. The menu information **12** contains the picture or graphic information corresponding to vendors and services available in the system. The menu information could be broadcasted through a transmission channel **16** to a receiver **18** typically operated by a cable, telephone company, microwave ,TVRO or DBS operator. In a preferred embodiment described herein, cable operator **18** would in turn transmit information to receivers **26** within its broadcast area, through transmission channel **20**. Transmission channel **16** can be a full video channel or a narrow band channel through a satellite uplink-downlink.

The menu information **12** could be an aggregate of many pictures corresponding to various products or services combined into one full video signal and demodulated into narrow band information, whereby the TPS receiver would allow the customer to choose from many different menus without the cable operator **18** giving up a wide band or prime video channel.

In addition to menu information **12**, the transmitting source **10**, would also broadcast prompting data **14**, which represent the necessary information to electronically prompt a subscriber through the process of purchasing an item via a mail order catalog or paying for a selected service. Once the vendor or service is selected the prompting data for each vendor or service would be downloaded into a RAM within the receiver **26**. The prompting information for each vendor or service could then be displayed on an LCD within the receiver **26** or in a television set connected to the receiver **26**. It is also possible to combine both the picture and prompting data information and transmit the combination to receiver **26**.

The user at receiver **26**, makes a menu selection and answers the questions or prompts, pertinent to the selected vendor or service. The user then wipes a credit/debit card through receiver **26** which allows the credit/debit card to be authorized and a purchase or payment be made. The card information would be transmitted from receiver **26** to transaction processor **30** via transmission channel **28**. Typically receiver **26** would transmit the user selection and the financial account information via a modem, through a telephone line to transaction processor **30**. The transaction processor **30** would then verify the user's financial account. This includes verifying whether the consumer does in fact have the requisite sum available in the chosen account to pay for the selection made.

In the event that the consumer has used a credit card, the transaction processor **30** would then forward the verified information to a regional credit card network **42**, through transmission channel **32**. This information would be then forwarded to a participating financial institution **46**, through transmission channel **44**. The financial institution **46** would in turn pay the vendor or service provider **60**, and the consumer would receive a bill or receipt for that particular transaction. Similarly, in the event that the consumer has used a debit card, the transaction processor **30**, would then forward the verified information to a regional debit card network **36**, through transmission channel **38**. This information would be then forwarded to a participating financial institution **40**, through transmission channel **38**.

The transaction information would be also transmitted from transaction processor **30** to vendor or service provider **60**, via transmission channel **48**. Vendor or service provider **60** would then in turn provide the service or the goods purchased to the user via appropriate channels. Vendor or Service provider **60** could also send purchasing data to transmitting source **10** via transmitting channel **64** for upgrading service and product information, product availability, price change, products purchased and various other information.

There are various scenarios in which a transaction information could be verified. For example, in order for the consumer to be assured that the selected product or service can be delivered on a specific desired terms the transaction processor **30** would cross check the transaction information transmitted through channel **28** with the corresponding vendor or service database. Once that transaction has been cross-checked, the credit card processor **30** would send the authorization signal. Alternatively the vendor/service provider **60** may update its corresponding database and transmit such updated information to transmitting source **10**. Transmitting source **10** would then change the menu **12** and prompting data **14** and continuously broadcast the updated information to receivers **26**. Actual cross-check before authorization could be made locally in receiver **26**. Hence customer's selection would be compared with updated information broadcasted to receiver **26** for product verification purposes.

FIG. 1B depicts an alternate communication path for transaction authorization. When cable operator **18** requires to monitor all transaction interactions the consumer through receiver **26** would make a selection. The information representing such selected service or product would be transmitted to cable operator **18** via transmission channel **22**. Cable operator **18** after receiving the transaction information would retransmit such information to transaction processor **30** via transmission channel **24**. Thereafter the transaction verification would proceed as discussed before.

There are, however, situations when up to the minute information is critical to the consumer and the retailer. A typical scenario is providing a limited product or service to a pool of consumers. This includes tickets for a performance or a sporting event. Since the available seats are very limited it would become impractical to update the database by service provider **60**, transmit that database to source **10**, and retransmit that information to receiver **26** for verification purposes.

An alternate communication path as depicted in FIG. **2** could thus be established, wherein TPS user through a series of prompts would select the desired event. The information representing the user's choice would be transmitted to a ticket provider **61** like Ticketron, via transmission channel **52**. The Ticket provider **61** contains a database wherein available seats are continuously updated and the desired selection would be cross-checked against that database. If desired seat is available, the Ticket provider **61** would transmit the transaction information to transaction processor **30** via transmission channel **50** for credit authorization. Once the credit is authorized as described hereinabove, the credit processor would transmit the verification signal to ticket provider **61**, wherein the database contained therein would be updated and a confirmation message would be transmitted to the receiver **26** via transmission channel **52**. The ticket provider **61** would transmit updated event availability and other pertinent information to source **10** through transmission channel **64**.

FIG. **3** shows the block diagram of transmitting source **10**, wherein all the pertinent information for system's operation is programmed and accordingly transmitted to receivers **26**. Vendor or service provider's data can be transferred to the transmitting source **10**, either through asynchronous communication or by hard copy data like computer disk storage. In FIG. **3**, the high capacity data input device **202**, has the ability to load menu(picture or graphics) and prompting data information via external disk storage devices **214** and **216**. Alternatively, both the video and prompting information could be combined and fed into the data input device **202** together. Various vendors who do not maintain an in-house database, could periodically update their product information and send the updated information to TPS programmer, in the form of computer disks **214** and **216**. That information would be then transferred to the Main CPU **204**, which controls the overall data formatting, and transmits the formatted data to parallel data to video interface **212**.

In situations where the vendor or the service provider

maintains a database for updating the product information, transmitting source **10** would be connected to that database via communications channel **64**. The high speed vendors' or service providers' data would then be transmitted asynchronously from corresponding databases to computer dedicated processor **201**. That information would be buffered within processor **201**. The processor **201** would then perform packet formatting and output this data in a synchronous manner that is polled by the main CPU **204**.

The main CPU **204**, would perform time multiplexing to gather data belonging to various vendors and service providers. The data along with the formatted menu, prompting data and other housekeeping information will be time multiplexed and assembled by the main CPU **204** for transmission over the parallel bus to the parallel data to video interface **212**. The video interface **212**, converts the digital data into video format for transmission to receivers **26**. In the embodiment mentioned herein, video interface **212**, is model 17480, by Quantel.

Hard disk **206** stores all the necessary information for the transmitting source **10**. Data from main CPU **204** to video interface **212**, is transmitted via an extended SCSI or ESDI, as commonly known in the art.

FIG. **4**, depicts a side elevation of receiver **26** wherein slot **72** provides the space for wiping the credit or debit card. Display **76** allows for the user to page through the menus and their corresponding prompts. Keyboard **74** allows for various control functions.

FIG. **5**, depicts the top view of receiver **26**, wherein a sample menu on display **76** has been shown. TPS user by pressing appropriate buttons may page through various prompts and answer them accordingly for a desired product or a service.

FIG. **6**. depicts TPS receiver **26** installation diagram. Line **102** carries the information signals from cable operator to receiver **26** through cable-in jack **116**. Various signal processing functions as will be discussed hereinafter would be conducted on the information signals. The menu and prompting information would then be transmitted to TV set **112** through line **100**. Phone line **104** sends the transaction information to telephone company line through jack **108**. 2-way splitter **106** allows for both the telephone set **110** and receiver **26** use the same phone line accordingly.

The actual data processing within receiver **26** will be next explained based on the block diagram depicted in FIG. 7A. Receiver **26** would decode the data transmitted into cable feed **116**. This data may contain menu and prompting information for various vendors or service providers. Microprocessor **201** controls all the functions of receiver **26**. Menu and prompt information are initially encoded into multiple subchannels and all the multiple subchannels are encoded into one cable channel with 8 MHz bandwidth. Phased Locked Loop (PLL) synthesized tuner **215** selects the initial cable channel which would contain all the various subchannels. Phased Locked Loop synthesized tuner **216** outputs an intermediate carrier frequency which has the selected subchannel encoded on to it, wherein the desired menu and prompting information are contained. TPS user by pressing the desired selection would prompt microprocessor **201** to send the proper information to channel control **217**. Channel control **217** will in respond send the data for setting the demodulating frequency in tuners **215** and **216**, corresponding to the desired menu and prompt information.

Demodulator data separator **214** takes the RF channel that was selected by tuners **215** and **216** and steps down the carrier frequency and separates the desired data from the carrier frequency. The demodulated data would be then presented in parallel format onto the CPU bus **240**, for transfer through microprocessor **201** to menu text ram memory **205**. Encoded indexing data would be presented to microprocessor **201**, in demodulated packets of data, that would be used as cues for the various types of menuing data, under program control, so that appropriate menus and text would be placed in the correct memory in the desired sequence and location.

Memory **202** is a non volatile read and write memory (NVRAM) which contains all of the main program instructions for operating receiver **26**. NVRAM **203** would contain a unique subscriber I.D. Subscriber I.D. could be electrically erasable and therefore it could be remotely programmed with a unique I.D. number.

RAM **204** is just a scratch pad memory for use by the microprocessor **201** for conducting various calculations and memory moves that are necessary in operating the receiver.

Menu text RAM **205**, is a paged RAM for storing individual pages of display text memory which can then be accessed, a page at a time and dumped out into the video character generator **206** which would probably have a single page of RAM. Menu text RAM **205** would hold as many pages as necessary for the system.

Video character generator **206**, would take individual pages of RAM loaded in menu text RAM **205**, and then transmit the information in the form of video signal, into line **226** which is a direct video output. Video character generator **206** may also transmit video information to video RF modulator **210** which in turn feeds the information into RF switch **213**. RF switch **213** selects the proper input and feeds the video information through line **100** into the television receiver **112**. The menu and data information would, thereby, be displayed on the television **112** display.

Block **207** represents the time of day clock for any real time actions that the microprocessor requires for proper operation of the system. Time of day clock is of importance when the service provided is an event that is broadcasted through the cable to authorized receivers only. The consumer can select a desired program to view at a specific time of the day. The transmitting source **10**, continuously sends the scheduling information and the choice of programs available to view. The receiver **26**, would then cross-check the actual time and date of the desired transaction with the database being sent by transmitter source **10**. Once the actual transaction is verified, the financial information would be sent to transaction processor **30**, for payment authorization. Upon approval, microprocessor **201**, would send the appropriate signals to channel control **217**, at the desired time and date, which in turn transmits the appropriate tuning codes to PLL synth tuner , for tuning to the encrypted signal that carries the desired program. PLL tuner **232** is typically tunable to a 8 MHz cable channel, acting as a receiver front end with channel 3 output. The output of PLL tuner **232**, sends an unencrypted signal via line **234** to RF switch **213**, wherein the signal representing the desired program would be sent to the T.V. set through RF output of RF switch **213**.

A UART **208** is connected to a credit card swiper for taking information in from a credit card. The data received from credit card, would then be verified by microprocessor **201** and or transmitted through UART **209** and modem **212** to transaction processor **30** via the public telephone network for credit card verification and charge.

Programmable peripheral interface (Parallel Interface) **218**, is a dual 8 bit parallel port with a defined bus address. Port A of **218** drives an **8** bit addressable multi-line multi-

column LCD Display with internal display dirvers **220**. Key Scan circuit **221** and Keyboard circuit **223**, generate appropriate signals upon depression of keyboard buttons **74**. The generated signals are then presented to port B of parallel interface **218**.

The channel selection is done by TPS user by pressing the appropriate selection on keyboard **74**. The appropriate vendor or service whose information is encoded into a specific channel would correlate to the key depressed by the TPS user. The microprocessor **201** would then load the proper control codes into channel control **217** for selecting the channel containing the corresponding desired menu and prompting data or encrypted video.

RF switch **213** is a 3 by 1 switch which could also bypass the cable feed directly to television **112** without processing the data. Video character generator **206** as stated above would also have a direct video out for users who would want to view the information at a high quality monitor instead of television sets. Microprocessor **201** can be a relatively simple 8 bit microprocessor with a high clock rate which would serve the needs of the system.

FIG. **7B** is another TPS keypad schematic with an additional improvement for credit card recording. With the advent of smartcards, it is possible to store pertinent financial information of various institutions on a memory located on one smartcard only. It is possible to update the stored memory on said smartcards by connecting a smartcard recorder **234** to receiver **26**, through UART **236**. The information on the smartcard can be then remotely read or recorded via microprocessor **201** for updating purposes, and thereafter for transmitting the financial information, for the appropriate transaction. This additional option allows for a widespread use of smartcards, which up to now were hindered for lack of a proper and convenient method of updating the information stored in the cards.

FIG. **8**. is an example of questions and answer prompts for ticket purchasing described herein above. The main menu contains various service or product selection. The TPS user would select prompts for purchasing a desired ticket. The prompt would change into more specific questions like region, state, city, event, location, artist, date & time, seating section number of tickets, next day delivery, etc. Every category would be subdivided into more specific questions whereby the user can select the precise event and schedule accordingly.

More specifically a typical menu as shown in FIG. **8** would first have a main menu display **300**. The consumer by pressing a button could select one of many services available in the system. For purposes of example, this may include Home Shopping **301**, or Paying Bills **302**, or Charity donation **303**, or Ticket Purchasing **304**. Assuming that the consumer has selected the Ticket Purchasing option **304**, the system then displays a variety of choices, including Region **306**, State **320**, City **330**, Event **340**, Location **350**, Artist **360**, Date & Time **370**, Seating Section **380**, Number of Tickets **390**, and Next Day delivery **392**.

The consumer can purchase tickets based upon the information shown on the display. For example the menu can prompt the consumer on the desired region in the country. Assuming that the consumer has selected Northeast region **307**, the menu then inquires on the States located in that region. Upon selecting New York State **324** from the State **320** menu, the major cities in the selected State would be displayed. Assuming that New York City **333** is selected, then the available events in New York City would be displayed on event menu **340**. The event could be concert **341**, or Theater **342**, or Sports **343**. Depending on the event selected the corresponding location to that event would be then displayed on location menu **350**. Once the consumer selects a desired location, the menu then displays various artists performing in the selected location, on display menu **360**. The consumer then selects the desired artist, which in turn allows for the dates and times of the artist's performance be displayed on Date & Time menu **370**. Since receiver **26** is directly communicating with Ticket provider's database, up to the minute information can be verified. Upon selecting the date and the time of the desired event, the Seating Section menu **380**, then displays the available seating areas. Once the seating section is chosen, the Number Of Tickets menu **390** asks for the desired number of tickets. The next prompt would be delivery of the actual purchased tickets, which could be done by mail or at the theater counter.

The receiver **26** can be used for various purposes; purchasing products from various catalogs; obtaining instant ticket access; a media news channel whereby the viewer can access the channel by selecting the appropriate menu selection; ballot box, where a convenient 900 number voting service may be used, whereby the user by pressing a button on the menu would select a voting option on the video menu and receiver **26** would dial a 900 number for voting purposes; donation box, whereby a viewer by pressing appropriate menu selection and wiping the credit card off the receiver **26** may donate to a desired charity; software downloading where the user may rent or purchase a particular software broadcasted by transmitting source **10** and any other application. The software may include video games available for rent and eventual purchase. The consumer hence would be able to try a video game through recevier **26** and through appropriate downloaded software for operating the microprocessor **201** of FIG. **7A**. The service provider could charge the consumer on a periodic basis; It is also possible to control receiver **26** by a remote controller with credit card reading ability, whereby the transaction information can be conducted remotely from the receiver **26**. Video information can also be fed into a computer and hence allow a computer interaction with the system for various purposes within the scope of this invention.

While the invention has been described in its preferred embodiments, it is to be understood that the words which have been used are word of description, rather than limitation, and that changes may be made within the preview of the appended claim without departing from the scope and spirit of the invention.

I claim:

1. A transactional processing system for purchasing products and services from a plurality of available products and services and processing corresponding financial transactions in real-time comprising:

(a) a programming transmitter means for broadcasting and updating a plurality of transaction information sets associated with said plurality of available products and services via a first communication channel, said first communication channel having a plurality of subchannels, said subchannels each transmitting channel having a plurality of subchannels, said subchannels each transmitting a corresponding transaction information set in said first communication channel;

(b) a plurality of receiver means each serving one user for receiving in each receiver means the identical transaction information sets broadcast from said programming transmitter, each one of said receiver means including RAM storage means, and means for downloading and

storing within the RAM storage means a desired transaction information set from the broadcast information sets received within each of said receiver means and to select a desired transaction for purchasing a product and service associated with said selected transaction information set, each of said receiver means including means for transmitting financial information of the user; each of said receiver means including a processor, programmed instructions and stored information for acting on downloaded information, and means for generating signals to said processor for modifying the downloaded information based on the programmed instructions, stored information and the downloaded information;

(c) means forming a second communication channel originating at said plurality of receiver means and through which the financial information of respective users which is processed at said receiver means is transmitted; and

(d) transaction processor means coupled to said second communication channel for receiving the financial information of respective users generated at respective receiver means, said transaction processor including means for generating an authorization signal through said second communication channel to respective receiver means to authorize said desired transaction in real time for said selected products and services.

2. A system according to claim **1**, wherein each one of said transaction information sets further comprise a plurality of prompting data corresponding to said products and services for prompting users to make a selection.

3. A system according to claim **2**, wherein each one of said transaction information sets further comprise:

A plurality of graphic information corresponding to said available products and services.

4. A system according to claim **1**, wherein said first communication channel further comprises:

(a) a satellite uplink/downlink transmission between said programming transmitter and one operator means for receiving and transmitting information; and

(b) a broadcast channel from said operator means to said receiver means.

5. A system according to claim **1**, wherein said second communication channel is a telephone line.

6. A system according to claim **2**, wherein said transaction processor before authorizing said desired transaction, verifies said financial information of said user and transmits an authorizing signal to a financial institution, said financial institution making payments to vendors or service providers.

7. A system according to claim **6**, wherein said transaction processor further transmits transaction information to said vendors or service providers, allowing said vendors or service providers supply selected products or services.

8. A system according to claim **7**, wherein said vendors or service providers transmit updated information on their product and service to said programming transmitter.

9. A system according to claim **2**, wherein said receiver means further comprises a slot for wiping a credit card.

10. A system according to claim **3**, wherein said receiver means is connected to a television set, said graphic information and said prompting data being displayed on said television set.

11. A system according to claim **2**, wherein said receiver means comprises an LCD display means for displaying said prompting data.

12. A system according to claim **3**, wherein said receiver means comprises an output means for transmitting video signals representing said graphic information and prompting data to a video monitor.

13. A system according to claim **2**, wherein said receiver means further comprises:

(a) a receiver microprocessor means for controlling various functions of said receiver means, said receiver microprocessor means connected to a data bus and to an address bus;

(b) a tuning and demodulating means for receiving and demodulating a channel containing selected graphic and prompt information, said demodulating means connected to said data bus and said address bus;

(c) a first memory means for storing a program for operating said receiver, said memory means connected to said data bus and said address bus;

(d) a second memory for storing said graphic and prompt information, said second memory means connected to data bus and said address bus;

(e) a video character generating means for converting said graphic and prompt information into video signals, said video character generating means connected to said data bus and said address bus;

(f) a first interface means for displaying said graphic and prompt information on an LCD display said first interface means connected to said data bus and said address bus;

(g) a second interface means for scanning a key pressed on said receiver, said second interface means connected to said data bus and said address bus;

(h) a third interface means for connecting a card swiper wherein card information from a credit or debit card can be read by swiping said card through said card swiper and said card information can in turn be fed into said third interface, said third interface connected to said data bus and said address bus; and

(i) a fourth interface means for connecting a telephone modem, wherein transaction information corresponding to a selected product or service can be transmitted by said modem from said receiver to said transaction processor, said modem receiving data from said fourth interface means, said fourth interface means connected to said data bus and said address bus.

14. A system according to claim **13** further comprising a smartcard interface means for connecting a smartcard recording means, for reading and writing information stored on a smartcard, said smardcard interface means connected to said data bus and said address bus.

15. A system according to claim **13**, wherein said transmitting source further comprises:

(a) a transmitter microprocessor means providing data formatting, said data corresponding to a plurality of products and services available in the system from a plurality of vendors and service providers, said transmitter microprocessor means connected to a data bus;

(b) a dedicated processor means for receiving and buffering asynchronous data from said vendors and service providers, said dedicated processor performing packet formatting, and transmitting said data in a synchronous manner to said data bus, said transmitter microprocessor means polling said dedicated processor for accomplishing said synchronous data transmittal;

(c) a data input device means for loading graphic and prompting information corresponding to the plurality of vendors and service providers, via external memory

means, said data input device connected to said data bus for transmitting said information; and

(d) a parallel data to video interface means for receiving from said transmitter microprocessor means, data corresponding to said plurality of vendors and service providers, and converting said data into a video format appropriate for video transmission, said transmitter microprocessor means formatting said graphic and prompting data, and time multiplexing and assembling said data for transmission to said parallel data to video interface.

16. A system according to claim **15**, wherein the service provided is an event that is broadcasted to authorized receivers, wherein:

(a) said transmitting source broadcasts scheduling information and choice of programs available for viewing;

(b) said receivers further comprising a time and date tracking means for maintaining the actual time and date, said receiver verifying a selected program and corresponding broadcast time and date of said selected program with said scheduling information, said receiver further sending appropriate signals at said broadcast time and date, for tuning to a signal that carries the selected program.

17. A system according to claim **4**, wherein said second communication channel, comprises a transmission path between said user and said operator said user transmitting transaction information, said operator transmitting said transaction information to said transaction processor.

18. A transaction system for purchasing tickets and processing corresponding financial transaction in real-time comprising:

(a) a programming transmitter means for broadcasting updated prompting data corresponding to a plurality of performances and sporting events, via a first communication channel, said tickets available for said events;

(b) a plurality of receiver means each serving one user for receiving in each receiver means the identical prompting data broadcast via said first communication channel, each one of said receiver means including RAM storage means and means for downloading and storing within the RAM storage means said prompting data for allowing users to select tickets for a desired event, each of said receiver means including means for transmitting desired ticket information and financial information of said user; each of said receiver means including a processor, programmed instructions and stored information for acting on downloaded information, and means for generating signals to said processor for modifying the downloaded information based on the programmed instructions, stored information and the downloaded information,

(c) means for forming a second communication channel originating at said plurality of receiver means and through which the compiled ticket is transmitted;

(d) a database means coupled to said second communication means and containing information on available seats and events, said database means receiving the desired ticket information and said financial information transmitted by said receiver means and transmitted through said second communications channel, said database means verifying said transaction information;

(e) a transaction processor means for receiving financial information from said database means, said transaction processor authorizing payments in real time for said selected tickets, said transaction processor transmitting a verification code to said database means, said database means updating said information on available seat and events, said database means further transmitting verification information to said receiver means.

19. A system according to claim **18**, wherein said first communication channel comprising:

(a) a satellite uplink/downlink transmission between said programming transmitter and an operator means for receiving and transmitting information; and

(b) a broadcast channel from said operator means to said receiver means.

20. A system according to claim **19**, wherein said database means transmits updated information on available performances and events to said programming transmitter.

21. A method for real-time authorization of payment for goods and services from a plurality of retailers available through a video menu having graphics and text information associated with each of said retailers comprising the steps of:

(a) broadcasting the identical video menu to a plurality of receivers;

(b) receiving in each of the receivers the identical video menu and storing the video menu in the receivers for retrieval by a consumer; and downloading and storing within a RAM storage a desired transaction information set from the broadcast information sets, while also acting on the downloaded information within a processor by using programmed instructions and stored information for modifying the downloaded information based on the programmed instructions, the stored information and the downloaded information;

(c) processing within each receiver information concerning a consumer's financial account and customer's selection from the menu;

(d) transmitting to a payment processor the information processed by the receiver which comprises the consumer's financial account and customer's selection from the video menu; and

(e) verifying the consumer financial account information by the payment processor, and thereafter authorizing payment for the selection.

22. A method according to claim **21**, further comprising the steps of transmitting by said payment processor a payment authorization signal to a financial institution.

23. A method according to claim **22**, further comprising the step of forwarding by said financial institution, said payment authorization to said retailer.

24. A method of transaction processing for purchasing tickets and processing corresponding financial transaction in real-time comprising the steps of:

(a) broadcasting the identical updated menus by a transmitter source, the menus corresponding to a plurality of performances and sporting events to a plurality of receivers;

(b) receiving in each of the receivers the identical menus; and each of said receiver means including a processor, programmed instructions and stored information for acting on downloaded information, and means for generating signals to said processor for modifying the downloaded information based on the programmed instructions, stored information and the downloaded information,

(c) processing within a respective receiver information concerning a consumer's financial account and customer's selection from the menu;

(d) transmitting to a database means the information processed within the receiver relating to the consumer's financial account and consumer ticket selection from the menus;

(e) verifying the consumer ticket selection by the database means, and transmitting the financial account information by the database means to a transaction processor and thereafter the transaction processor authorizing payment for the selection; and

(f) transmitting from the database means updated information to the transmitting source.

25. A method according to claim **24** further comprising the step of transmitting by said transaction processor a payment authorization signal to a financial institution.

26. A method according to claim **25** further comprising the step of forwarding by said financial institution said payment authorization to said database means.

27. A system according to claim **2**, wherein said transaction processor after authorizing said desired transaction, verifies said financial information of said user and transmits an authorizing signal to a financial institution, said financial institution making payments to vendors or service providers.

* * * * *

Exhibit B

United States Patent No. 6,246,400

US006246400B1

(12) **United States Patent**
Bush

(10) **Patent No.: US 6,246,400 B1**
(45) **Date of Patent: *Jun. 12, 2001**

(54) **DEVICE FOR CONTROLLING REMOTE INTERACTIVE RECEIVER**

(76) Inventor: **Thomas A. Bush**, 100 First Stamford Pl., Suite 200, Stamford, CT (US) 06902-6732

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **08/982,630**

(22) Filed: **Dec. 2, 1997**

Related U.S. Application Data

(63) Continuation of application No. 08/444,202, filed on May 18, 1995, now abandoned, which is a continuation-in-part of application No. 08/191,143, filed on Feb. 2, 1994, now Pat. No. 5,475,585, which is a continuation of application No. 07/591,380, filed on Oct. 1, 1990, now abandoned.

(51) **Int. Cl.**[7] **H04N 7/173**
(52) **U.S. Cl.** **345/327**; 348/12; 455/5.1
(58) **Field of Search** 348/12, 13, 6, 348/10, 11, 7, 1, 3; 455/5.1, 6.1, 6.2, 6.3, 4.2, 2, 734, 14, 15, 16, 17, 18; 380/5, 7, 15, 20; 345/327

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,071,697	1/1978	Bushnell et al.	179/2
4,358,672	11/1982	Hyatt et al.	235/380
4,734,858	3/1988	Schlafly	348/13
4,907,257	3/1990	Asano et al.	379/144
5,046,093	9/1991	Wachob	341/176
5,138,649	8/1992	Krisbergh et al.	379/56
5,173,589	12/1992	Diehl et al.	235/375
5,173,936	12/1992	Ditzig et al.	379/440
5,208,446	5/1993	Martinez	235/380
5,266,782	11/1993	Alanara et al.	235/380
5,282,028	1/1994	Johnson et al.	348/12
5,311,302	5/1994	Berry et al.	348/14
5,336,870	8/1994	Hughes et al.	235/379
5,343,239	8/1994	Lappington et al.	348/13
5,388,101	2/1995	Dinkins	348/13
5,410,326	4/1995	Goldstein	348/134
5,421,030	5/1995	Baran	348/10
5,451,998	9/1995	Hamrick	348/13
5,521,631	5/1996	Budow et al.	348/3
5,671,267 *	9/1997	August et al.	348/10

FOREIGN PATENT DOCUMENTS

WO 9306564 4/1993 (WO) .

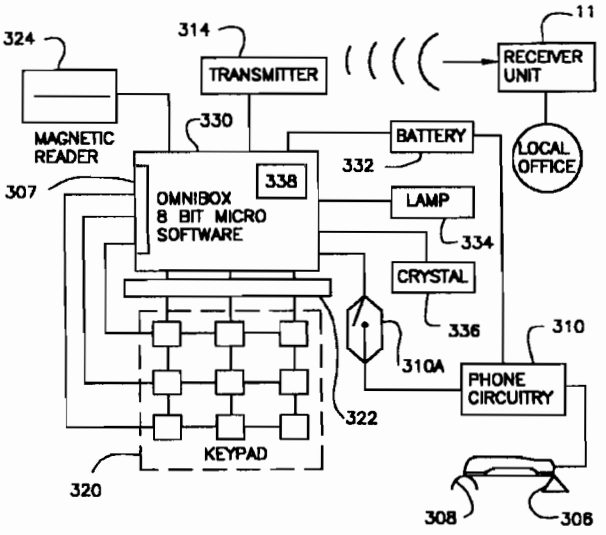
* cited by examiner

Primary Examiner—Chris Grant
(74) *Attorney, Agent, or Firm*—Sofer & Haroun, LLP

(57) **ABSTRACT**

A remote control device controls interaction of an interactive receiver unit positioned at a remote location. The remote control device has a housing and manually actuable keypad mounted on the housing. A control mechanism is mounted in the enclosure and operatively connected to the manually actuable keypad for receiving selected input data from the keypad corresponding to desired programming selections of the interactive receiver unit positioned at the remote location. Financial information is stored in the remote, and a transmitter transmits a desired program corresponding to a selected keypad sequence, and also transmits financial information of the user.

54 Claims, 13 Drawing Sheets



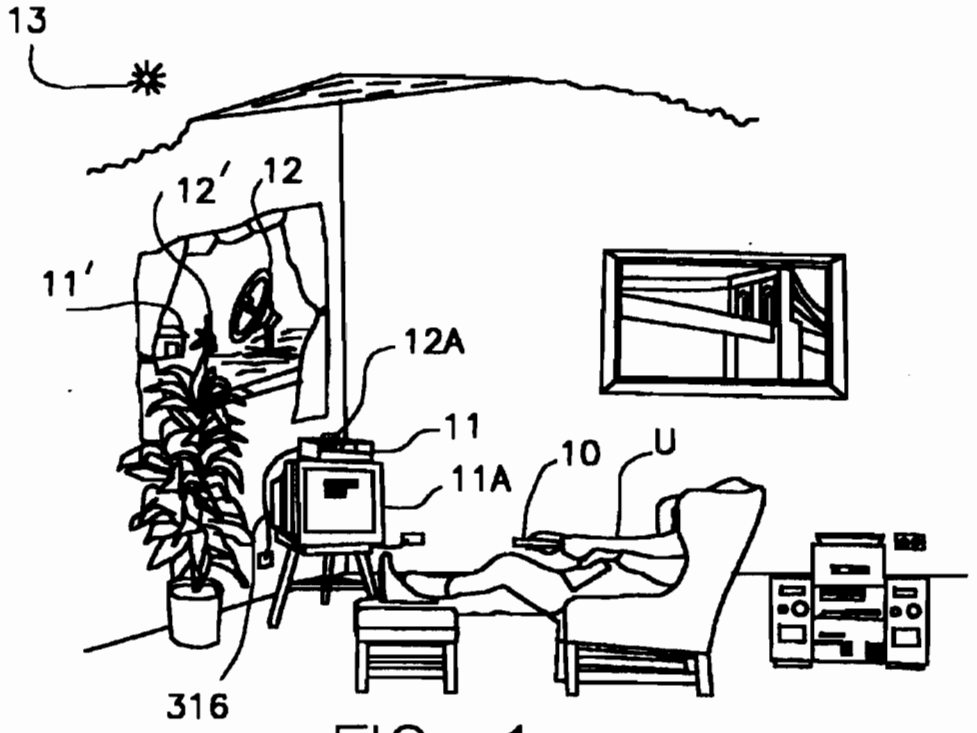


FIG. 1

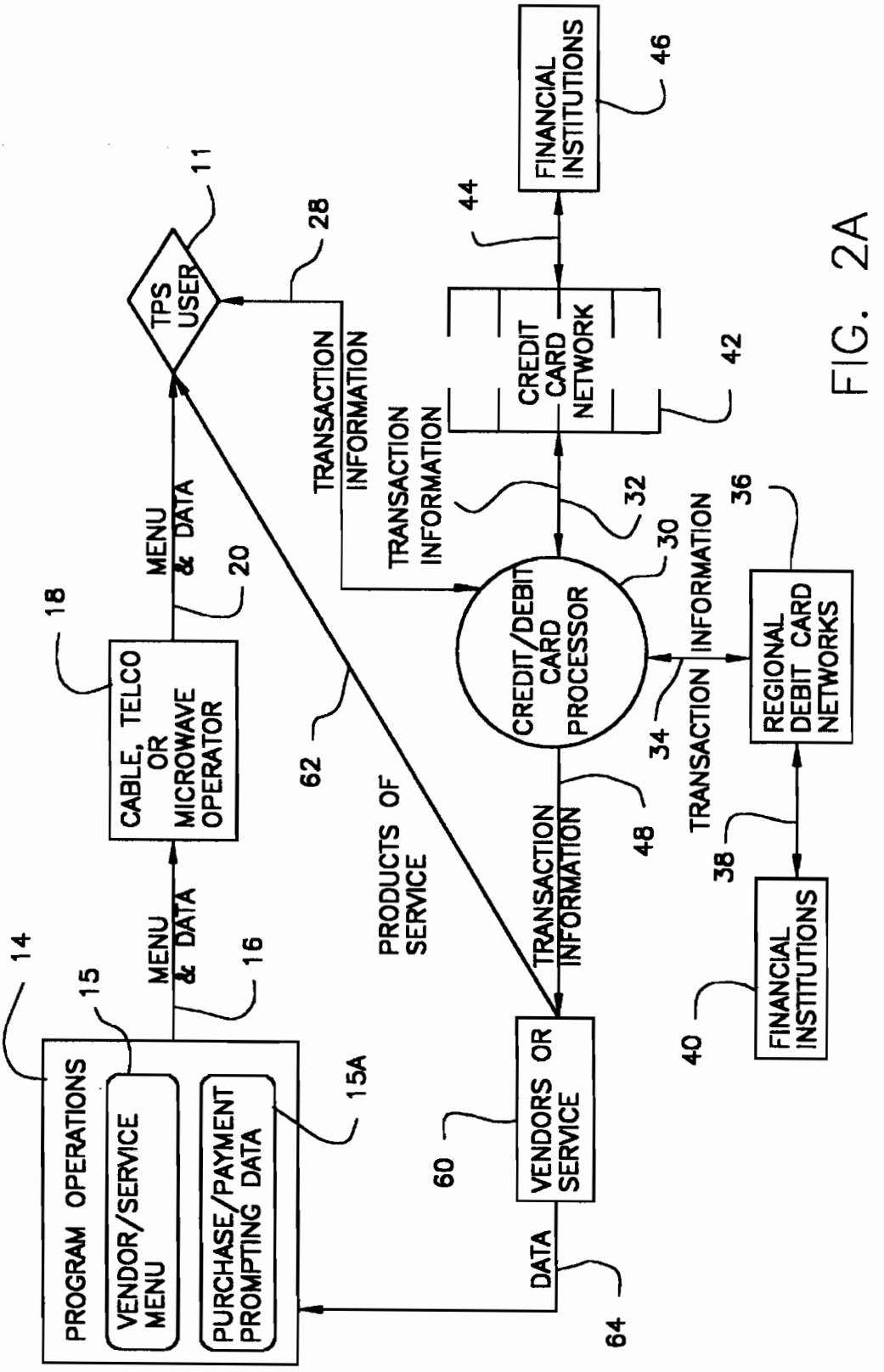

PROGRAM OPERATIONS
VENDOR/SERVICE MENU
PURCHASE/PAYMENT PROMPTING DATA
14
15
15A
MENU & DATA
16
CABLE, TELCO OR MICROWAVE OPERATOR
18
MENU & DATA
20
TPS USER
11
TRANSACTION INFORMATION
28
FINANCIAL INSTITUTIONS
46
44
CREDIT CARD NETWORK
42
TRANSACTION INFORMATION
32
CREDIT/DEBIT CARD PROCESSOR
30
TRANSACTION INFORMATION
34
REGIONAL DEBIT CARD NETWORKS
36
TRANSACTION INFORMATION
38
FINANCIAL INSTITUTIONS
40
PRODUCTS OF SERVICE
62
TRANSACTION INFORMATION
48
VENDORS OR SERVICE
60
DATA
64

FIG. 2A

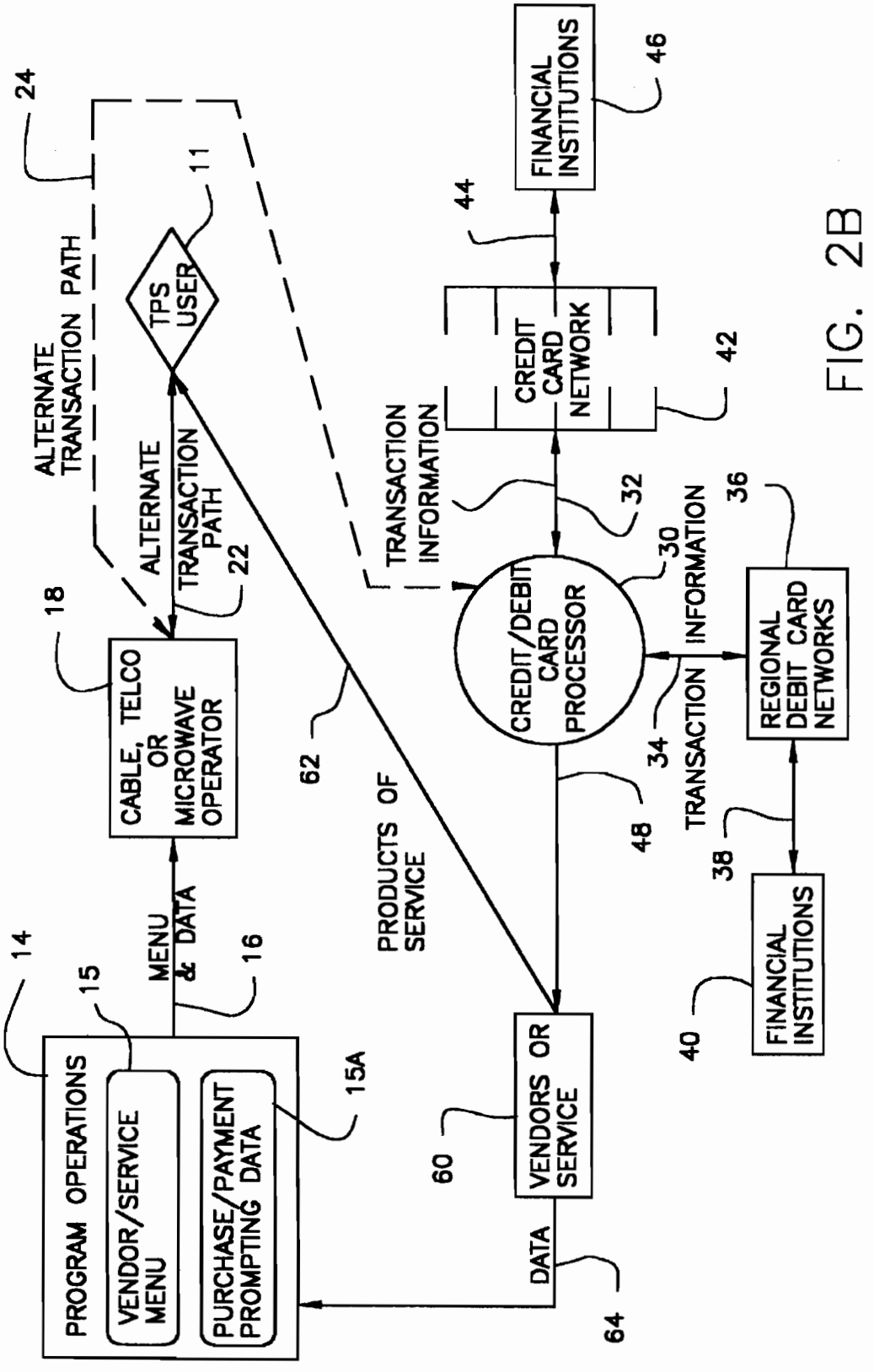

PROGRAM OPERATIONS
VENDOR/SERVICE MENU
PURCHASE/PAYMENT PROMPTING DATA
MENU & DATA
CABLE, TELCO OR MICROWAVE OPERATOR
TPS USER
ALTERNATE TRANSACTION PATH
ALTERNATE TRANSACTION PATH
PRODUCTS OF SERVICE
DATA
VENDORS OR SERVICE
CREDIT/DEBIT CARD PROCESSOR
TRANSACTION INFORMATION
CREDIT CARD NETWORK
FINANCIAL INSTITUTIONS
TRANSACTION INFORMATION
REGIONAL DEBIT CARD NETWORKS
TRANSACTION INFORMATION
FINANCIAL INSTITUTIONS
14
15
15A
16
18
22
24
11
62
60
64
30
32
34
36
38
40
42
44
46
48

FIG. 2B

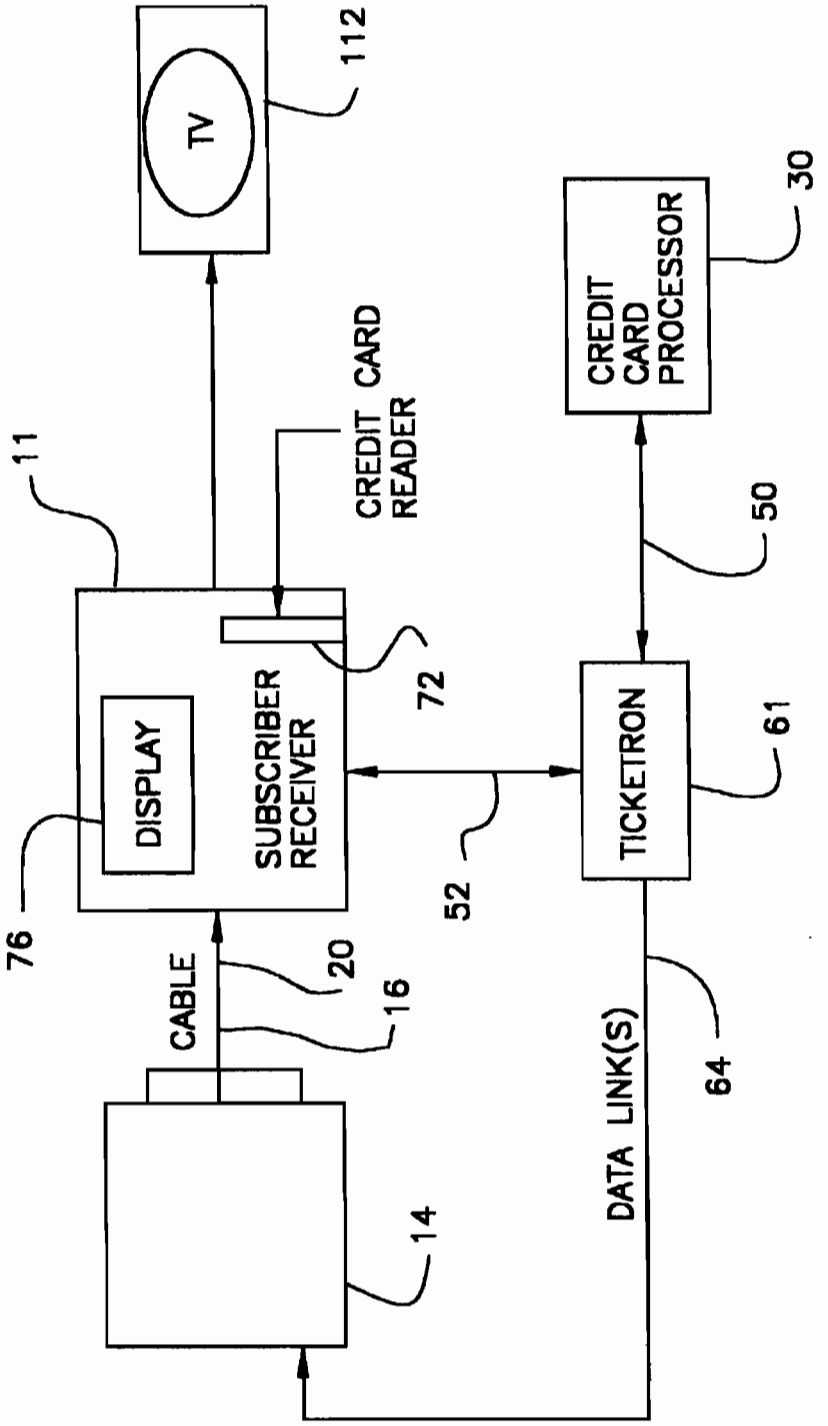

TV
112
CREDIT CARD PROCESSOR
30
CREDIT CARD READER
11
50
72
DISPLAY
SUBSCRIBER RECEIVER
TICKETRON
61
76
52
CABLE
20
16
DATA LINK(S)
64
14

FIG. 3

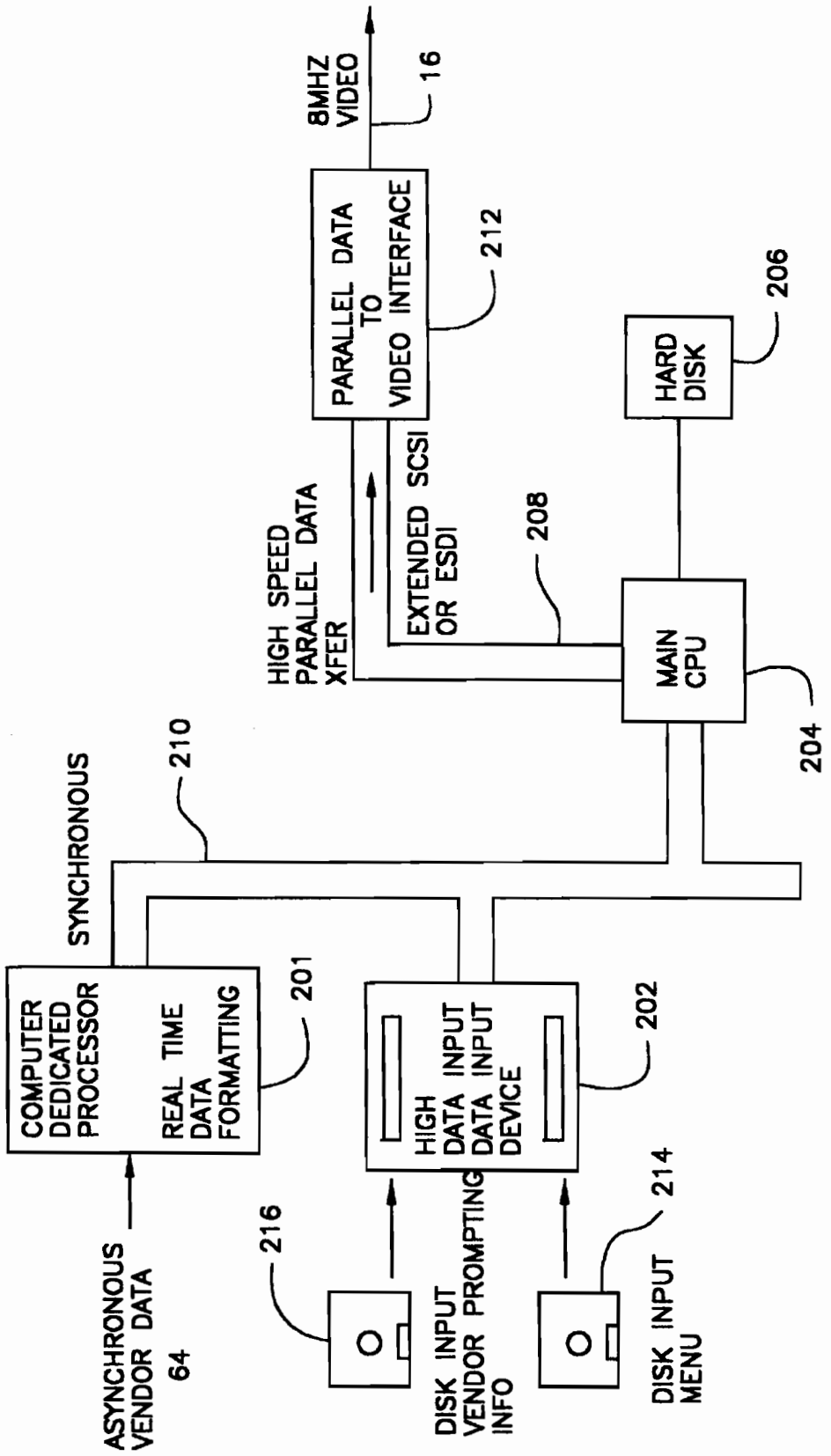

8MHZ VIDEO
16
PARALLEL DATA TO VIDEO INTERFACE
212
HARD DISK
206
HIGH SPEED PARALLEL DATA XFER
EXTENDED SCSI OR ESDI
208
MAIN CPU
204
210
SYNCHRONOUS
COMPUTER DEDICATED PROCESSOR
REAL TIME DATA FORMATTING
201
HIGH DATA INPUT DATA INPUT DEVICE
202
ASYNCHRONOUS VENDOR DATA
64
216
DISK INPUT VENDOR PROMPTING INFO
214
DISK INPUT MENU

FIG. 4

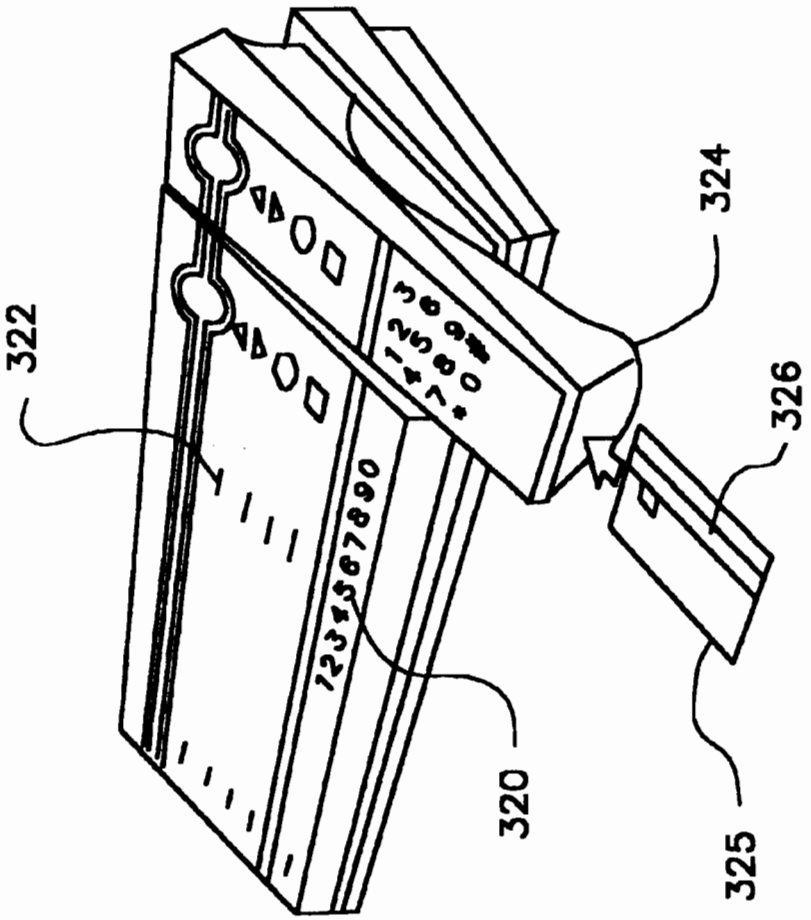


FIG. 5

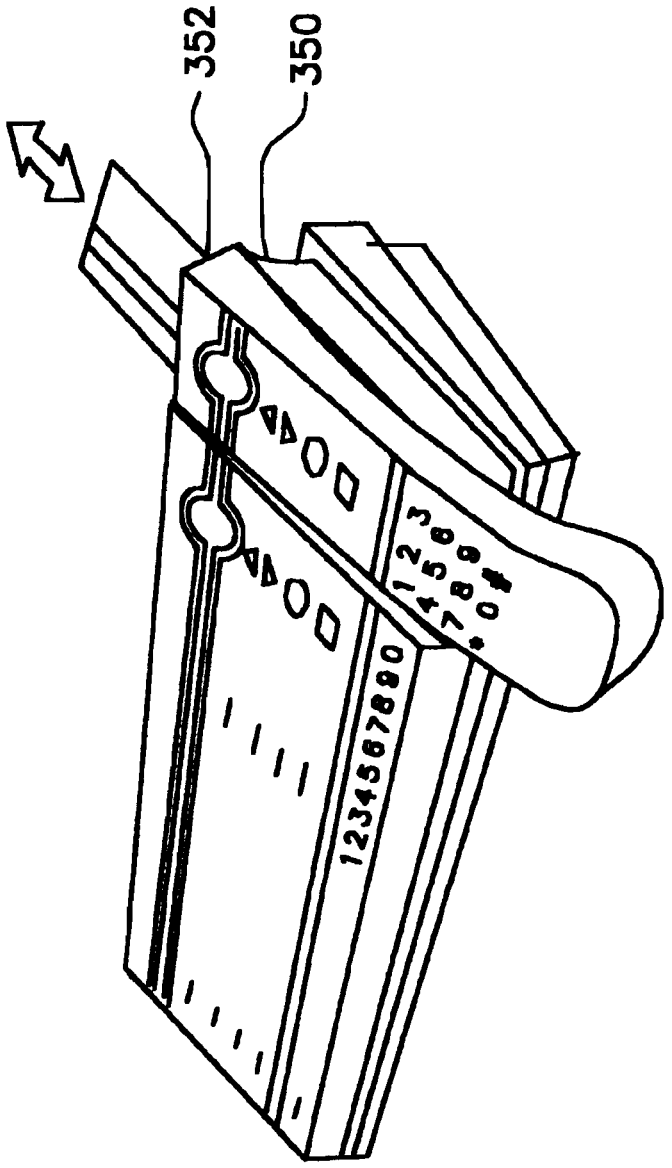


FIG. 6

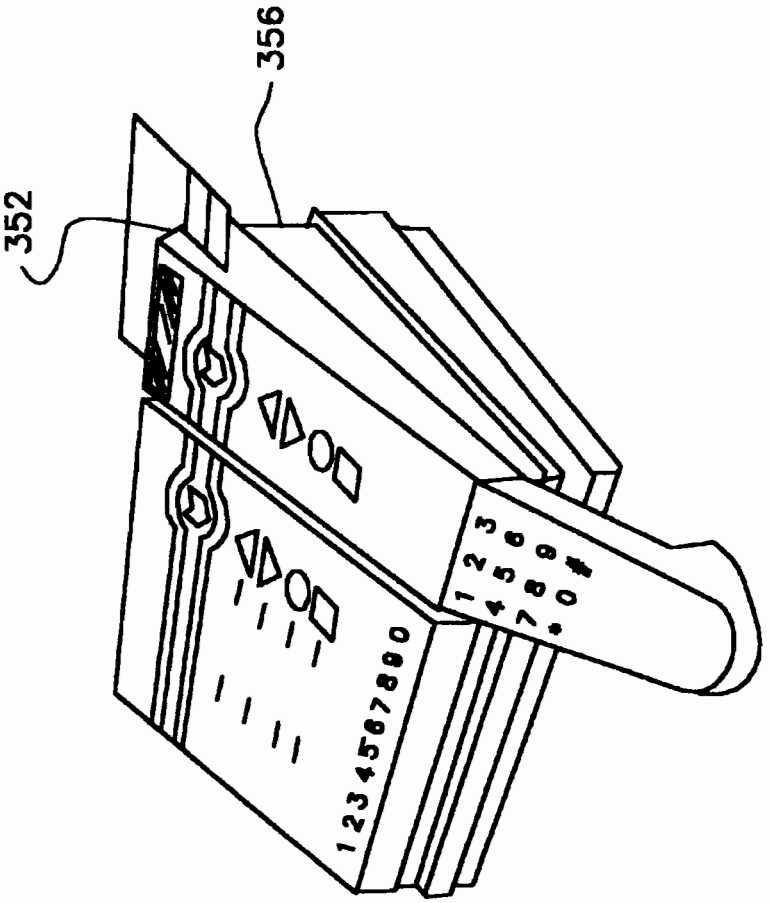


FIG. 7

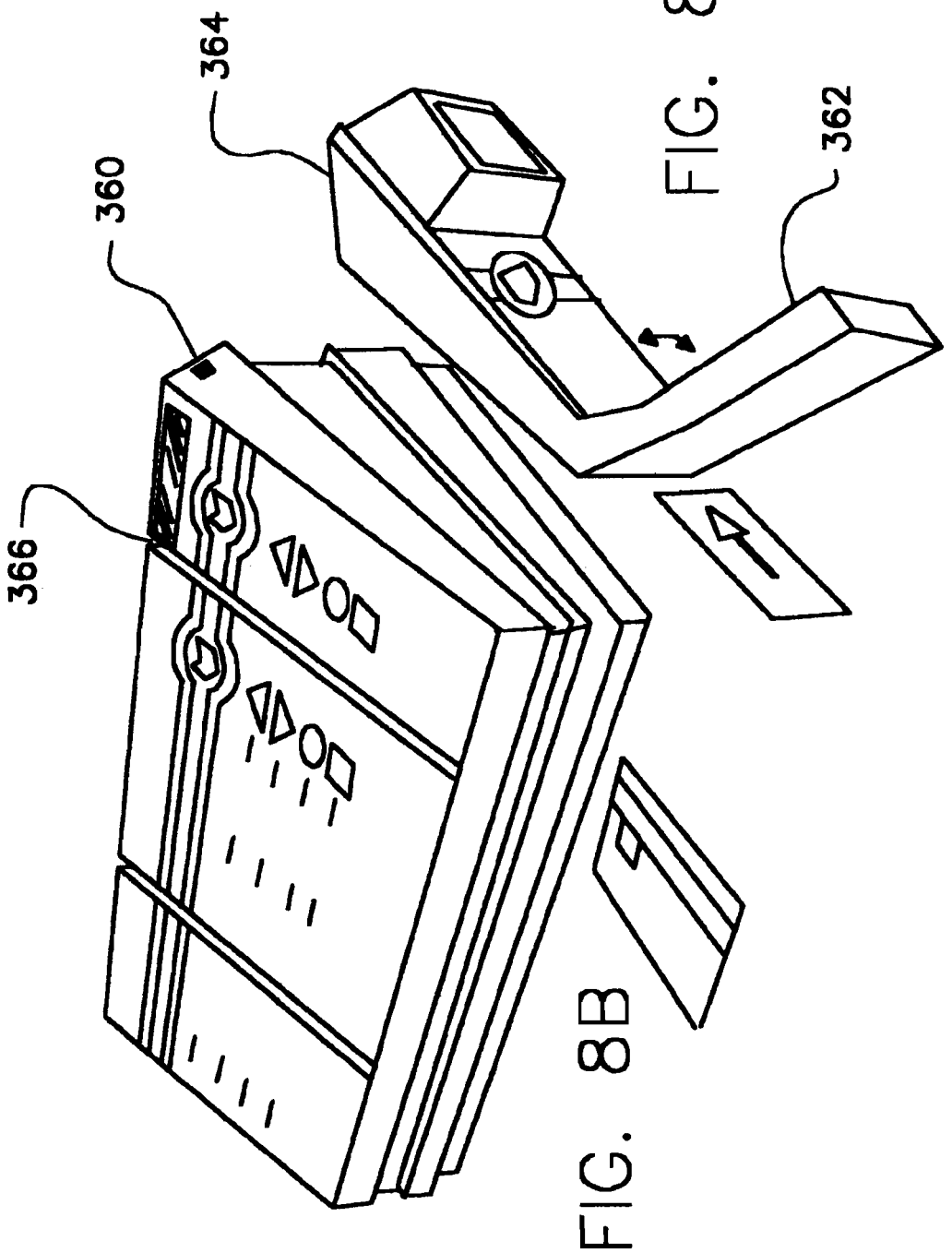


FIG. 8A

FIG. 8B

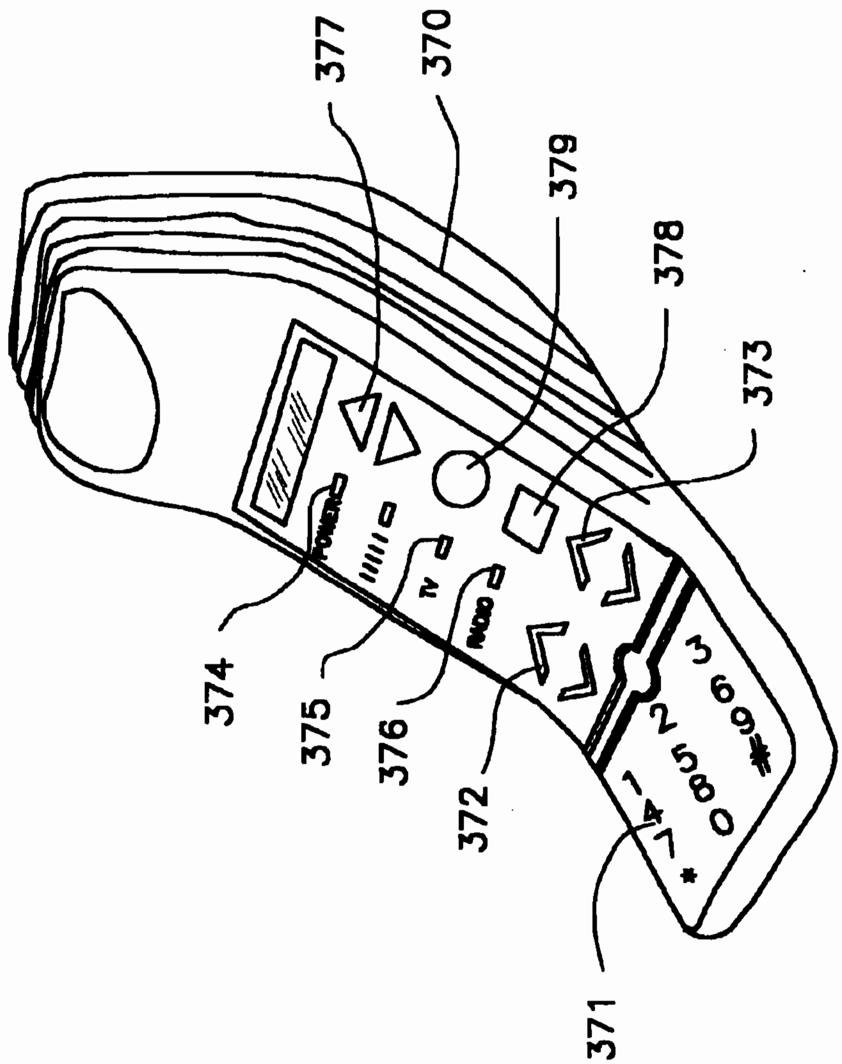


FIG. 9

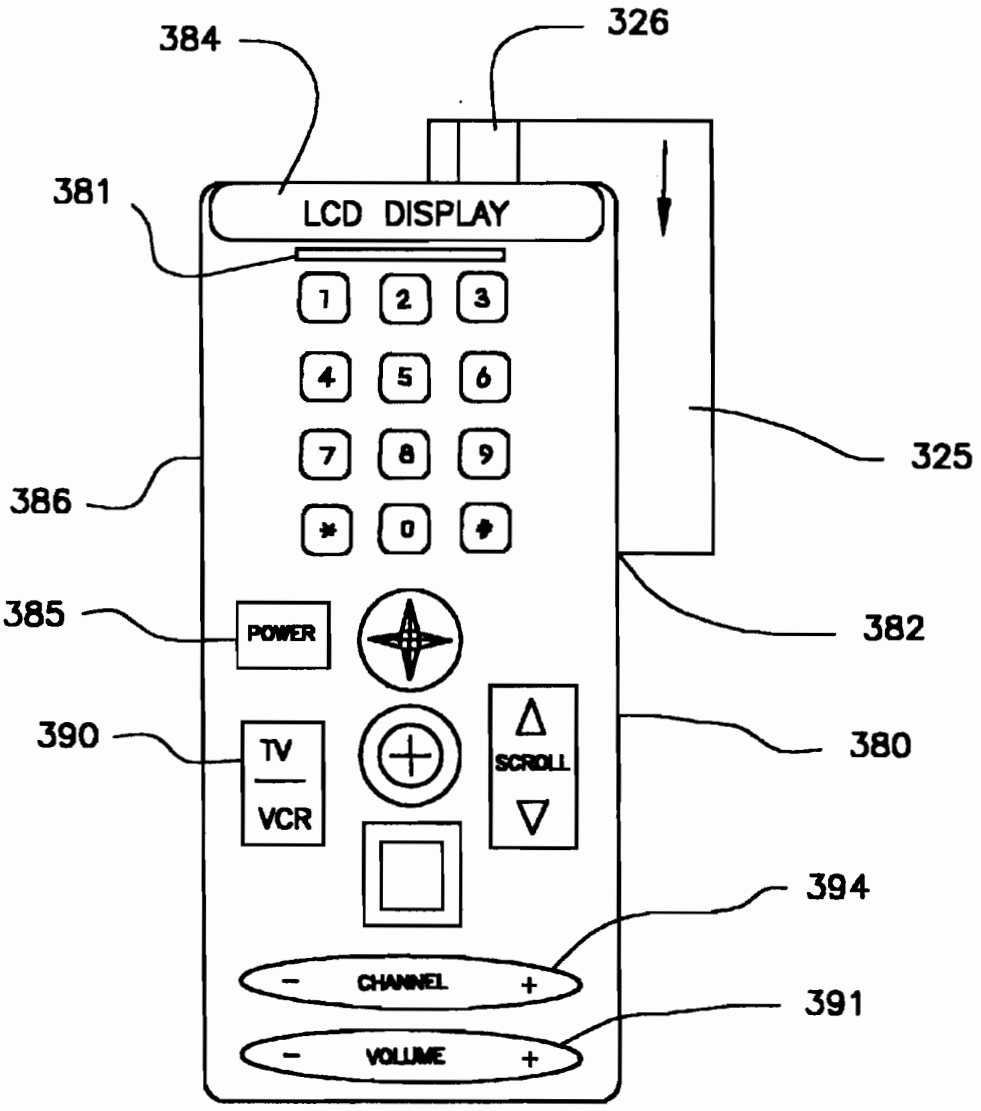

384
326
381
LCD DISPLAY
1
2
3
4
5
6
7
8
9
*
0
#
325
386
385
POWER
382
390
TV
VCR
SCROLL
380
394
CHANNEL
391
VOLUME

FIG. 10

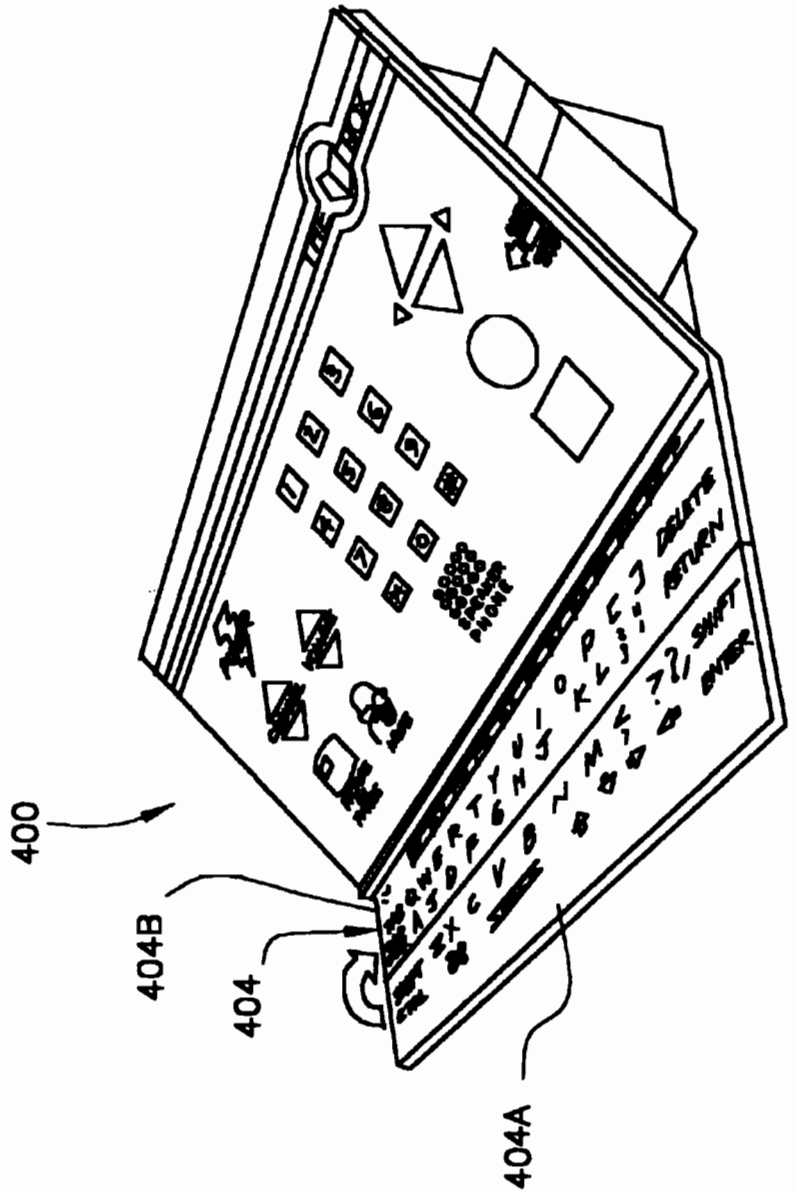


FIG. 11

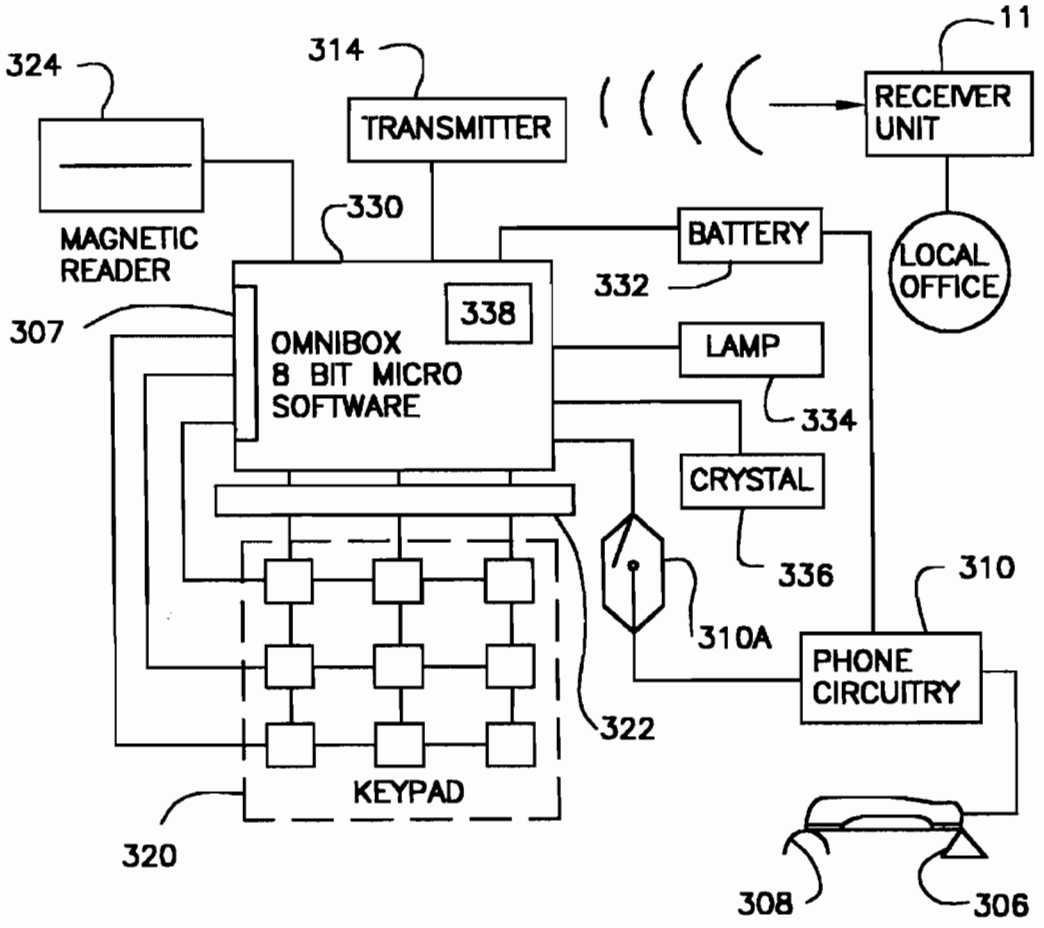

11
314
324
TRANSMITTER
RECEIVER UNIT
MAGNETIC READER
330
BATTERY
LOCAL OFFICE
332
307
338
OMNIBOX 8 BIT MICRO SOFTWARE
LAMP
334
CRYSTAL
336
310
310A
PHONE CIRCUITRY
322
KEYPAD
320
308
306

FIG. 12

DEVICE FOR CONTROLLING REMOTE INTERACTIVE RECEIVER

This is a continuation of application Ser. No. 08/444,202 filed May 18, 1995 now abandoned which is a continuation-in-part application of U.S. patent application Ser. No. 08/191,143 filed Feb. 2, 1994, now U.S. Pat. No. 5,475,585 which is a continuation of application Ser. No. 07/591,380, filed Oct. 1, 1990, now abandoned, which are hereby incorporated by reference in their entirety into the present application.

FIELD OF THE INVENTION

This invention relates to a device for controlling a remote interactive receiver unit and, more particularly, to a remote control device which transmits user financial information or programming information to an interactive receiver unit positioned at a remote location.

BACKGROUND OF THE INVENTION

In the copending parent application, a transactional processing system is disclosed for purchasing products and services from a plurality of available products and services, and for processing corresponding financial transactions in real time. A transmitter broadcasts and updates a plurality of transaction information sets associated with a plurality of available products and services via a first communication channel. This first communication channel has a plurality of subchannels, each corresponding to a transaction information set in the first channel.

A plurality of receiver units, e.g., receivers positioned in difference households, serve a respective plurality of users, and simultaneously receive the identical transaction information sets broadcast from the transmitter. Each receiver unit includes a user interactive mechanism for selecting and storing a desired information set and for selecting a desired transaction for purchasing a product and services associated with a selected set.

A second communication channel originates at the receiver units and financial information of a respective user is transmitted from a receiver unit through the channel to a transaction processor, which receives the financial information of respective users. The transaction processor generates an authorization signal through the second communication channel to respective receivers to authorize a desired transaction in a real time for the selected products and services. The receiver unit could be incorporated within a television set.

In one aspect of the disclosed invention in the copending parent application, the receiver unit is a tabletop unit having a credit card slot for receiving a card and recording financial information of the user. The receiver unit also includes a keypad and other switches and functions for controlling television station selections. The receiver unit could also include phone components and be formed as a phone handset.

The use of remote devices for controlling television, video recorders/players, and other devices, however, is becoming more commonplace, and in some instances, required. Accordingly, it is desirable if the receiver unit of the transactional processing system could be controlled from a remote control device, and more preferably, a handheld remote control device. A remote control device should not only control processing instructions at the receiver unit, but also receive financial information of a user, such as by a smart card or credit card. Additionally, it is desirable to have

a remote control device which can control operation of a receiver unit positioned at a remote location in which the remote control device not only transmits desired programming selections, but also receives and transmits to the receiver unit financial information of a user for further transactions by the receiver unit.

SUMMARY OF THE INVENTION

The present invention now allows transmission from a remote control device of desired programming selections to a receiver unit positioned at a remote location so as to choose a desired programming instruction set and interact therewith through a manually actuable keypad. The remote control device also transmits financial information of the user to the receiver unit. The receiver unit selects, stores and displays on a screen, such as television, the desired information set from these sets that are simultaneously received in the receiver unit.

A housing forms an enclosure and has a manually actuable keypad mounted on the housing. A processor is mounted in the enclosure and operatively connected to the manually actuable keypad for receiving data input from the keypad corresponding to desired programming selections at the remote receiver unit. The remote control device also stores financial information of the user. A transmitter is operatively connected to the processor for transmitting the desired programming selections to the receiver unit corresponding to the selected keypad sequence so as to choose a desired programming and interact therewith. The remote control device also transmits financial information of the user to the receiver unit.

In one aspect of the invention, the remote control device comprises the handset of the phone. Phone numbers are dialed from the keypad, and phone data is transmitted and received to and from a phone receiver unit positioned at the receiver unit. The phone receiver unit is connected to the local office. The phone receiver unit also may be an integral part of the receiver unit.

The remote control device also includes a switch for switching between use as a phone handset and use as a controller which interacts with the receiver unit. The remote control device in another aspect of the invention includes a switch for selecting between use as a controller for keypad selection of television channels and keypad selection of subchannels of the transaction information sets. Financial information can be input by wiping a card containing the financial information of the user within a slot positioned on the remote control device housing. The slot can include a magnetic-strip/IC reader. In still another aspect of the invention, the keypad is a qwerty keypad.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing advantages of the present invention will be appreciated more fully from the following description, with reference to the accompanying drawings, in which:

FIG. **1** is an environmental view of the inside of a home showing a user having the remote control device of the present invention and using the device to interact with the transactional processing system receiver unit;

FIG. **2A** is a block diagram of the Transactional Processing System (TPS);

FIG. **2B** is a block diagram of an alternate embodiment of the Transactional Processing System.

FIG. **3** is a block diagram of a TPS for real-time service requiring continuous update.

FIG. 4 is a block diagram of a TPS transmission system.

FIG. 5 is an isometric view of a Transactional Processing System receiver unit having a handheld remote control device in the form of a phone handset where a credit card is longitudinally inserted in its lower portion.

FIG. 6 is an alternate embodiment of the receiver unit of FIG. 5 showing a difference phone handset.

FIG. 7 is still another alternate embodiment of the receiver unit of FIG. 6 showing a different phone handset.

FIGS. 8*a, b* is an isometric view of an alternate embodiment of the receiver unit.

FIG. 9 is an alternate embodiment of the remote control device.

FIG. 10 is an alternate embodiment of the remote control device which has no phone components.

FIG. 11 is an alternate embodiment of the remote control device showing a more complex remote control device having a querty keyboard.

FIG. 12 is a block diagram of various components of the remote control device and portions of the Transactional Processing System.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings in which like numeral represent like components, FIG. 1 illustrates an environmental view of the inside a house showing a user "U" having the remote control device 10 of the present invention using it in conjunction with the receiver unit 11 of the transactional processing system. As illustrated, the receiver unit 11 receives signals from a satellite dish 12, and satellite 13 uplink via cable 12*a*. Another receiver 11' is a part of the system and receives signals simultaneously from its satellite dish 12' and uplink connection. In these illustrated embodiments, the receiver unit 11 is connected to a television 11*a* which displays selected transactions sets.

FIG. 2A illustrates block diagram of Transactional Processing System (TPS). Many details of the Transaction Processing System are set forth in the copending parent application which is incorporated by reference in its entirety into the present application. For purposes of understanding, a general description of the Transaction Processing System is set forth below.

A transmitting source 14 broadcasts a signal, preferably video, representing one or many video menus, offering the consumer the option to pay for either a product or a service. The menu information 15 contains the picture of graphic information corresponding to vendors and services available in the system. The menu information could be broadcasted through a transmission channel 16 to a receiver 18 typically operated by a cable, telephone company, microwave TVRO or DBS operator. In a preferred embodiment described herein, cable operator 18 would in turn transmit information to receiver units 11 within its broadcast area, through transmission channel 20. Transmission channel 16 can be a full video channel or a narrow band channel through a satellite uplink-downlink.

The menu information 15 could be an aggregate of many pictures corresponding to various products or services combined into one full video signal and demodulated into narrow band information, whereby the TPS receiver would allow the customer to choose from many different menus without the cable operator 18 giving up a wide band or prime video channel.

In addition to menu information 15, the transmitting source 14, would also broadcast prompting data 15A, which represent the necessary information to electronically prompt a subscriber through the process of purchasing an item via a mail order catalog or paying for a selected service. Once the vendor or service is selected the prompting data for each vendor or service would be downloaded into a RAM within the receiver unit 11. The prompting information for each vendor or service could then be displayed on an LCD within the receiver unit 11 or in a television set connected to the receiver unit 11. It is also possible to combine both the picture and prompting data information and transmit the combination to receiver unit 11.

The user at the receiver unit 11, makes a menu selection and answers the questions or prompts, pertinent to the selected vendor or service. The user then wipes a credit/debit card through the receiver unit 11 which allows the credit/debit card to be authorized and purchase or payment be made. The card information would be transmitted from receiver unit 11 to transaction processor 30 via transmission channel 28. Typical receiver unit 11 would transmit the user selection and the financial account information via a modem, through a telephone line to transaction processor 30. The transaction processor 30 would then verify the user's financial account. This includes verifying whether the consumer does in fact have the requisite sum available in the chosen account to pay for the selection made.

In the event that the consumer has used a credit card, the transaction processor 30 would then forward the verified information to regional credit card network 42, through transmission channel 32. This information would be then forwarded to a participating financial institution 46, through transmission channel 44. The financial institution 46 would in turn pay the vendor or service provider 60, and the consumer would receive a bill or receipt for that particular transaction. Similarly, in the event that the consumer has used a debit card, the transaction processor 30, would then forward the verified information to a regional debit card network 36, through transmission channel 34. This information would be then forwarded to a participating financial institution 40, through transmission channel 38.

The transaction information would be also transmitted from transaction processor 30 to vendor or service provider 60, via transmission channel 48. Vendor or service provider 60 would then in turn provide the service or the goods purchased to the user vias appropriate channels. Vendor or Service provider 60 could also send purchasing data to transmitting source 14 via transmitting channel 64 for upgrading service and product information, product availability, price change, products purchased, and various other information.

There are various scenarios in which transaction information could be verified. For example, in order for the consumer to be assured that the selected product or service can be delivered on specific desired terms, the transaction processor 30 would cross check the transaction information transmitted through channel 28 with the corresponding vendor or service database. Once that transaction has been cross-checked, the credit card processor 30 would send the authorization signal.

Alternatively, the vendor/service provider 60 may update its corresponding database and transmit such updated information to transmitting source 14. Transmitting source 14 would then change the menu 15 and prompting data 15*a* and continuously broadcast the updated information to receiver units 11. Actual cross-check before authorization could be made lo ally in receiver unit 11. Hence customer's selection would be compared with updated information broadcasted to receiver 11 for product verification purposes.

FIG. 2B depicts an alternate communication path for transaction authorization. When cable operator **18** requires to monitor all transaction interactions the consumer through the receiver unit **11** would make a selection. The information representing such selected service or product would be transmitted to cable operator **18** via transmission channel **22**. Cable operator **18** after receiving the transaction information would retransmit such information to transaction processor **30** via transmission channel **24**. Thereafter the transaction verification would proceed as discussed before.

There are, however, situations when up to the minute information is critical to the consumer and the retailer. A typical scenario is providing a limited product or service to a pool of consumers. This includes tickets for a performance of a sporting event. Since the available seats are very limited, it would become impractical to update the database by service provider **60**, transmit that database to source **14**, and retransmit that information to receiver unit **11** for verification purposes.

An alternate communication path as depicted in FIG. **3** could thus be established, where TPS user through a series of prompts would select the desired event. The information representing the user's choice would be transmitted to a ticket provider **61** like Ticketron, via transmission channel **52**. The ticket provider **61** contains a database wherein available seats are continuously updated and the desired selection would be cross-checked against that database. If desired seat is available, the ticket provider **61** would transmit the transaction information to transaction processor **30** via transmission channel **50** for credit authorization. Once the credit is authorized as described hereinabove, the credit processor would transmit the verification signal to ticket provider **61**, wherein the database contained therein would be updated and a confirmation message would be transmitted to the receiver unit **11** via transmission channel **52**. The ticket provider **61** would transmit updated even availability and other pertinent information to source **14** through transmission channel **64**.

FIG. **4** shows the block diagram of transmitting source **14**, wherein all the pertinent information for system's operation is programmed and accordingly transmitted to receiver units **11**. Vendor or service provider's data can be transferred to the transmitting source **14**, either through asynchronous communication or by hard copy data like computer disk storage. In FIG. **4**, the high capacity data input device **202**, has the ability to load menu (picture or graphics) and prompting data information via external disk storage devices **214** and **216**.

Alternatively, both the video and prompting information could be combined and fed into the data input device **202** together. Various vendors who do not maintain an in-house database, could periodically update their product information and send the updated information to TPS programmer, in the form of computer disks **214** and **216**. That information would be then transferred to the Main CPU **204**, which controls the overall data formatting, and transmits the formatted data to parallel data to video interface **212**.

In situations where the vendor or the service provider maintains a database for updating the product information, transmitting source **14** would be connected to that database via communications channel **64**. The high speed vendors' or service providers' data would then be transmitted asynchronously from corresponding databases to computer dedicated processor **201**. That information would be buffered within processor **201**. The processor **201** would then perform packet formatting and output this data in a synchronous manner that is polled by the main DPU **204**.

The main CPU **204**, would perform time multiplexing to gather data belonging to various vendors and service providers. The data along with the formatted menu, prompting data and other housekeeping information will be time multiplexed and assembled by the main CPU **204** for transmission over the parallel bus to the parallel data to video interface **212**. The video interface **212**, converts the digital data into video format for transmission to receiver units **11**. In the embodiment mentioned herein, video interface **212**, is model 17480, by Quantel.

Hard disk **206** stores all the necessary information for the transmitting source **14**. Data from main CPU **204** to video interface **212**, is transmitted via an extended SCSI or ESDI, as commonly known in the art. Further information of the Transaction Processing Information of the present invention can be obtained from the incorporated parent application.

Referring now to FIGS. **5** through **11**, there are illustrated various alternate embodiments of a remote control device which is associated for use with the receiver unit **11** of the Transaction Processing System. For purposes of understanding each alternate embodiment of the remote control device is indicated by a reference number beginning in the **300** series. Those components that are common to the different embodiments are given similar reference numerals. In FIG. **5**, there is illustrated a receiver unit **11** which has a remote control device **300** associated therewith. The remote control device **300** is configured similar to a phone handset and is received within an end slot **302** of the receiver unit **11**. The remote control device **300** includes phone circuitry (FIG. **12**) which includes a microphone **306**, receiver **308** and associated components **310** for receiving and transmitting phone messages to and from the receiver unit **11**. The phone preferably has wireless connection to the receiver unit **11**, and can use the transmitter **314** of the remote **300** for communication. The transmitter operates on several frequencies and transmits financial information on a communication channel different form the communication channel used to transmit desired programming selections. Transmitter **314** can include an interface **314*a*** for interacting with a videogame.

The receiver unit **11** is operatively connected to the phone line **316** which connects to the central office (as shown in FIG. **1**). As noted above, the phone line connected to the receiver unit forms a part of the second communication channel (FIG. **1**).

The receiver unit **11** includes all the standard controls such as a numeric keypad **320**, and a selector **322** for activating a scrolling function within the receiver unit **11**. Other function keys may indicate power, tv/vcr, channel selector and volume controls. It is advantageous for any controls and function keys that are included on the remote control device to be duplicated on the receiver unit **11** in case the remote control device **300** is lost, misplaced or broken. The receiver unit **11** also can include a slot (not shown) for accepting a smartcard or credit card to obtain and store financial information of the user.

As shown in FIG. **5**, the remote control device **300** also includes a slot **324** at the bottom portion of the handset adjacent to the speaker microphone. A credit card or smart card **325** is inserted longitudinally into the slot **324**. The slot **324** typically is a magnetic-strip/IC reader, which reads the financial information contained on the magnetic strip **326** of the card.

As discussed above, FIG. **12** illustrates a high level block diagram of a remote control device **300** of the present invention, and shows various components of the device. The

various switching mechanisms, functions, keypad and circuiting components can be selected by one skilled in the art. The remote control device **300** of the present invention also includes a switch mechanism **310***a* for switching between use of the remote control device as a phone handset and use as a controller for interaction with the receiver unit **11**. Additionally, the remote control device includes a switching mechanism **327** for switching between use as a remote control device which selects television or cable channels and keypad selection of subchannels of the transaction information sets controlled by the receiver unit **11**.

The remote control device **300** includes an eight bit microprocessor **330** which includes permanent firmware for operating some of the other components of the device. Additionally, the device **300** includes a battery **332**, a lamp **334** for illuminating an LCD display and other controls and functions. A crystal oscillator **336** ensures frequency control. The keypad **320** is operatively connected to the microprocessor **330**. The remote control device also includes a long term storage **338**, such as an EEPROM, which stores financial information of the user for subsequent transactions, hours, days, or months in advance.

FIG. **6** illustrates an embodiment of a remote control device **350** of the present invention similar to that shown in FIG. **5**. The card containing financial information is inserted longitudinally in a slot **352** positioned at the top portion of the handset adjacent the receiver.

FIG. **7** still shows another embodiment of a remote control device **356** of the present invention where the card is inserted horizontally in the top slot **352**.

The embodiments of FIGS. **5**, **6** and **7** could be used with conventional games.

FIG. **8***a* discloses another embodiment of a remote control device, indicated generally at **360**, of the parent invention where the speaker microphone assembly **362**, which includes some control functions, is pivotally attached to the main body **364** of the remote control device. FIG. **8**B shows the remote control device **360** resting in the slot **366** of the receiver unit **322**.

FIG. **9** is another embodiment of the remote control device **370** of the present invention in which more numerous control functions are mounted on the device. These functions can include a keypad **371**, volume control **372**, channel selection **373**, power off/on **374**, TV and radio selector **375**, **376**, scroll **377**, and switches **378**, **379** for selecting between phone operation and interactive communication with a receiver unit **11**.

Referring now to FIG. **10**, a more compact remote control device **380** which does not include phone components is illustrated. The device includes a slot **382** for receiving a credit card or other card containing financial information of the user as well as a small LCD display **384**. A numeric keypad **386** for controls either selection of television channels or various transaction processing sets depending on the position of the selector switch **387**. Additionally, the device includes a power switch **385**, and a TV/VCR button **390**. The device also includes standard channel and volume buttons **394**, **391**. Other controls will be included desired.

Referring now to FIG. **11**, there is shown a stationary remote control device **400**, which can be mounted on an end table, or other table such as adjacent to a sofa, for controlling function of the receiver unit **11**. This device **400** interacts with the receiver unit **11**, and includes a split qwerty/keyboard **404** which includes function keys F1 through F12. Half of the keyboard **404***a* comprises a lower portion which is pivotally mounted to the upper half keyboard section **404***b*. Additionally, in one aspect of the invention, this embodiment of the remote control device **400** can include most components of the transactional processing system receiver unit so that it doubles as a receiver unit itself, with full computing functions such as provided with a qwerty keyboard **404**.

The remote control device of the present invention is advantageous because it now allows control over the receiver unit of the transaction processing system from a remote location. Additionally, a user sitting in his home can relax and not only use a telephone, but also at his option, input financial information and communicate with the receiver unit for selecting various transactions while maintaining the same device.

It should be understood that the foregoing description of the invention is intended merely to be illustrative thereof, and that other embodiments, modifications and equivalents may be apparent to those skilled in the art without departing from its spirit.

That which is claimed is:

1. A remote control device for use with a transactional processing system having a receiver unit that receives information from a programming source over a communication channel, said receiver unit also including means for receiving and selecting desired programming selections, said remote control device comprising:

a housing forming an enclosure;

a manually actuable keypad mounted on the housing,

control means mounted in the enclosure and operatively connected to said manually actuable keypad for receiving selected input data entered manually on the keypad corresponding to said desired programming selections that are provided to said receiver unit by said programming source;

means for receiving financial information from a user of said remote control device;

transmitter means operatively connected to said control means for:

a) transmitting desired programming selections to said receiver unit corresponding to a selected keypad sequence so as to choose a desired programming and interact therewith through the manually actuable keypad,

b) transmitting the financial information to the receiver unit, said receiver unit transmitting said financial information on a selected communication channel to authorize a desired transaction corresponding to a desired programming selection.

2. The device according to claim **1** including means for transmitting the financial information on a communication channel different from the communication channel used to transmit desired programming selections.

3. The device according to claim **1** where in said device further comprises the hand set of a phone, wherein phone numbers are dialed from the keypad of said device, and including means for respectively transmitting and receiving data to and from the receiver unit positioned at the remote location.

4. The device according to claim **3** wherein said device includes switch means for switching between use of the device as a phone handset and use of the device as a controller for interaction with the interactive receiver unit positioned at the remote location.

5. The device according to claim **1** wherein said means for receiving financial information of said user includes a slot for wiping a card containing the financial information of the user.

6. The device according to claim 5 wherein said slot comprises a magnetic-strip/IC reader.

7. The device according to claim 1 wherein said keypad comprises a qwerty keypad.

8. The device according to claim 1 wherein said housing is configured to be held in one hand.

9. A device according to claim 1 wherein said transmitting means comprises means for interacting with a video game.

10. A device according to claim 1 wherein said receiver unit is positioned within a television set.

11. A remote control device for use with a transactional processing system having a receiver unit that receives identical transaction information sets broadcast in subchannels from a programming transmitter and then selects, stores and displays a desired information set, comprising:

a housing,

a manually actuable keypad positioned on an outer surface of the housing,

control means contained within the housing and operatively connected to said manually actuable keypad for receiving data entered manually on the keypad corresponding to desired programming selections in the receiver unit that receives identical transaction information sets,

means for storing financial information of the user, means mounted by the housing for inputting said financial information to the financial storing means,

transmitter means operatively connected to said control means for

a) transmitting desired programming selections to a receiver unit corresponding to the selected keypad sequence so as to choose a desired programming and interact with the receiver unit through the manually actuable keypad, and

b) transmitting any financial information of the user to the receiver unit to authorize a desired transaction in real time,

phone circuitry including speaker and microphone means, and phone receiver and phone transmitter means for transmitting and receiving phone signals to and from said receiver unit, and

switch means for actuating said remote control device between 1) a phone wherein said phone circuitry is activated, and 2) a device for selectively interacting with said receiver unit to choose desired programming and authorize transactions.

12. The remote control device according to claim 11 wherein said keypad includes means for activating a scrolling function within the receiver unit for scrolling through individual transaction information sets.

13. The remote control device according to claim 11 wherein said means for inputting financial information of said user includes a slot for wiping a card containing the financial information of the user.

14. The remote control device according to claim 13 wherein said slot comprises a magnetic-strip/IC reader.

15. The remote control device according to claim 11 wherein said financial information storage means includes long term storage means for storing financial information of the user for subsequent transactions.

16. The remote control device according to claim 15 wherein said long term storage means comprises an EEPROM.

17. The remote control device according to claim 11 wherein said keypad comprises a qwerty keypad.

18. The remote control device according to claim 11 including another switch means for switching between keypad selection of normal television channels and keypad selection of subchannels of the transaction information sets.

19. The remote control device according to claim 11 wherein said housing is configured to be held in one hand.

20. A remote control device according to claim 11 including means for interacting with a video game.

21. A remote control device for use with a transactional processing system having a receiver unit that receives identical transaction information sets broadcast in subchannels from a programming transmitter and then selects, stores and displays a desired information set, said receiver unit also including means for receiving and selecting desired television channels, comprising:

a closed housing which is configured to be held in one hand,

a manually actuable keypad positioned on an outer surface of the housing,

control means contained within the housing operatively connected to said manually actuable keypad for receiving data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and including means positioned on the housing for inputting said financial information to the storing means,

transmitter means operatively connected to said control means for

a) transmitting desired programming selections to the receiver unit on a first communication channel corresponding to the selected keypad sequence so as to choose i) desired programming of transaction information sets and ii) selected television channels, and

b) transmitting the financial information of the user to a receiver unit on a second communication channel to authorize a desired transaction in real time, and

switch means for actuating said remote control device between 1) a television controller for selecting television channels, and 2) a controller for interacting with said receiver unit for selecting subchannels and transmitting financial information to said receiver unit.

22. A remote control device according to claim 21 including means for interacting with a video game.

23. A remote control device for selectively controlling interaction with a receiver unit of a transactional processing system used for purchasing products and services from a plurality of available products and services,

wherein said receiver unit includes means for receiving identical transaction information sets broadcast in subchannels from a programming transmitter, and including means for selecting, storing and then displaying a desired information set from the information sets received within the receiver unit and to select a desired transaction, said receiver unit including means for receiving programming selection and financial information signals from a remote control device, said remote control device comprising:

a manually actuable keypad,

control means operatively connected to said manually actuable keypad for receiving selected data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and

transmitter means operatively connected to said control means for

a) transmitting the desired programming selections to said receiver unit corresponding to a selected keypad

sequence so as to choose the desired programming and interact therewith through the manually actuable keypad, and

b) transmitting the financial information of the user to the receiver unit through a second communication channel to authorize a desired transaction in real time.

24. The remote control device according to claim **23** wherein said keypad includes means for activating a scrolling function within the receiver unit for scrolling through individual transaction information sets.

25. The remote control device according to claim **23** wherein said means for storing financial information of said user includes a slot for wiping a card containing the financial information of the user.

26. The remote control device according to claim **25** wherein said slot comprises a magnetic-strip/IC reader.

27. The remote control device according to claim **23** wherein said storing means includes long term storing means for storing financial information of the user for subsequent transactions.

28. The remote control device according to claim **27** wherein said long term storage means comprises an EEPROM.

29. The remote control device according to claim **23** wherein said keypad comprises a qwerty keypad.

30. The remote control device according to claim **23** wherein said receiver unit includes means connecting to a local phone line, and wherein said remote control device comprises the hand set of a phone, wherein phone numbers are dialed from the keypad of said device, and including means for transmitting and receiving the phone number between the remote control device and the receiver unit.

31. The remote control device according to claim **30** wherein said remote control device includes switch means for switching between use as a phone handset and use as a controller for interaction with the receiver unit.

32. The remote control device according to claim **23** wherein said device includes means for selecting normal television channels, and including switch means for switching between keypad selection of television channels and keypad selection of subchannels of the transaction information sets.

33. A transactional processing system for purchasing products and services from a plurality of available products and services and processing corresponding financial transactions in real-time comprising:

a programming transmitter means for broadcasting and updating a plurality of transaction information sets associated with said plurality of available products and services via a first communication channel, said first communication channel having a plurality of subchannels, said subchannels each transmitting a corresponding transaction information set in said first communication channel;

a receiver unit serving a user for simultaneously receiving identical transaction information sets broadcast in subchannels from the programming transmitter means, and including means for selecting, storing and then displaying a desired information set from the broadcast information sets simultaneously received within the receiver unit and to select a desired transaction, said receiver unit including means for receiving programming selection and financial information signals from a remote control device,

means forming a second communication channel originating at the receiver unit and through which financial information of the user is transmitted to a desired destination so as to authorize the desired transaction in real time for the selected products and services, and wherein

said remote control device comprising,

a manually actuable keypad,

control means operatively connected to said manually actuable keypad for receiving data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and

transmitter means operatively connected to said control means for

a) transmitting the desired programming selections to the receiver unit corresponding to a selected keypad sequence so as to choose the desired programming and interact with the receiver unit, and

b) transmitting the financial information of the user to the receiver unit to authorize a desired transaction in real time.

34. The system according to claim **33** wherein said keypad includes means for activating a scrolling function within the receiver unit for scrolling through individual transaction information sets.

35. The system according to claim **33** wherein said means for storing financial information of said user includes a slot for wiping a card containing the financial information of the user.

36. The system according to claim **35** wherein said slot comprises a magnetic-strip/IC reader.

37. The system according to claim **33** wherein said storage means includes long term storing means for storing financial information of the user for subsequent transactions.

38. The system according to claim **37** wherein said long term storage means comprises an EEPROM.

39. The system according to claim **33** wherein said keypad comprises a qwerty keypad.

40. The system according to claim **33** wherein said receiver unit includes means connecting to a phone line of the central office, and wherein said remote control device comprises the handset of a phone, wherein phone numbers are dialed from the keypad of said remote control device, said remote control device including means for transmitting and receiving phone messages and data between the remote control device and the receiver unit.

41. The system according to claim **40** wherein said remote control device includes switching means for switching between use as a phone handset and use as a controller for interaction with the receiver unit.

42. The system according to claim **33** wherein said receiver unit includes means for selecting normal television channels and said remote control device includes switch means for switching between keypad selection of television channels and keypad selection of subchannels of the transaction information sets.

43. The system according to claim **33** wherein said transaction information sets further comprises a plurality of prompting data corresponding to a product or service for prompting users to make a selection.

44. The system according to claim **43** wherein said set of transaction information sets further comprises:

a plurality of graphic information corresponding to the desired product or service.

45. The system according to claim **33** wherein said first communication channel comprises:

a satellite uplink/downlink transmission between said programming transmitter and one operator means for receiving and transmitting information; and

a broadcast channel from said operator means to said receiver unit.

46. The system according to claim **33** wherein said second communication channel is a phone line.

47. The system according to claim **33** further comprising means for transmitting an authorizing signal to a financial institution, said financial institution making payments to vendors or service providers.

48. The system according to claim **44** wherein said receiver unit is connected to a television set, said graphic information and said prompting data being displayed on said television set.

49. A transactional processing system according to claim **33** wherein said programming transmitter means includes RAM for storing information for transmission.

50. A remote control device for use with a transactional processing system having a receiver unit that receives information from a programming source over a communication channel, said receiver unit also including means for receiving and selecting desired programming selections, said remote control device comprising:

a housing forming an enclosure;

a manually actuable keypad mounted on the housing,

control means mounted in the enclosure and operatively connected to said manually actuable keypad for receiving selected input data entered manually on the keypad corresponding to said desired programming selections that are provided to said receiver unit by said programming source;

means for storing financial information from a user of said remote control device; and

transmitter means operatively connected to said control means for:

a) transmitting desired programming selection to said receiver unit corresponding to a selected keypad sequence so as to choose a desired programming and interact therewith through the manually actuable keypad, and

b) transmitting the financial information to the receiver unit, said receiver unit transmitting said financial information on a selected communication channel to authorize a desired transaction corresponding to a desired programming selection.

51. A remote control device for use with a transactional processing system having a receiver unit that receives information from a programming source over a communication channel, said receiver unit also including means for receiving and selecting desired programming selections, said remote control device comprising:

a housing forming an enclosure;

a manually actuable keypad mounted on the housing,

control means mounted in the enclosure and operatively connected to said manually actuable keypad for receiving selected input data entered manually on the keypad corresponding to said desired programming selections that are provided to said receiver unit by said programming source;

means for inserting financial information from a user of said remote control device;

means for storing financial information of the user; and

transmitter means operatively connected to said control means for:

a) transmitting desired programming selections to said receiver unit corresponding to a selected keypad sequence so as to choose a desired programming and interact therewith through the manually actuable keypad, and

b) transmitting the financial information to the receiver unit, said receiver unit transmitting said financial information on a selected communication channel to authorize a desired transaction corresponding to a desired programming selection.

52. A remote control device for use with a transactional processing system having a receiver unit that receives information from a programming source over a communication channel, said receiver unit also including means for receiving and selecting desired programming selections, said remote control device comprising:

a housing forming an enclosure;

a manually actuable keypad mounted on the housing,

control means mounted in the enclosure and operatively connected to said manually actuable keypad for receiving selected input data entered manually on the keypad corresponding to said desired programming selections that are provided to said receiver unit by said programming source;

input device which allows financial information from a user of said remote control device to be retrieved;

means for storing financial information of the user; and

transmitter means operatively connected to said control means for:

a) transmitting desired programming selections to said receiver unit corresponding to a selected keypad sequence so as to choose a desired programming and interact therewith through the manually actuable keypad, and

b) transmitting the financial information to the receiver unit, said receiver unit transmitting said financial information on a selected communication channel to authorize a desired transaction corresponding to a desired programming selection.

53. The remote control device of claim **52**, wherein said input device is a slot for wiping a card containing the financial information of the user.

54. In a cable system, a remote control device for use with a transactional processing system having a receiving unit that receives information from a programming source over a communication channel, said receiver unit also including means for receiving and selecting desired programming selections, said remote control device comprising:

a housing forming an enclosure;

a manually actuable keypad mounted on the housing;

control means mounted in the enclosure and operatively connected to said manually actuable keypad for receiving selected input data entered manually on the keypad corresponding to said desired programming selections that are provided to said receiver unit by said programming source;

means for receiving financial information from a user of said remote control device; and

transmitter means operatively connected to said control means for:

a) transmitting desired programming selections to said receiver unit corresponding to a selected keypad sequence so as to choose a desired programming and interact therewith through the manually actuable keypad, and

b) transmitting the financial information to the receiver unit, said receiver unit transmitting said financial information on a selected communication channel to authorize a desired transaction corresponding to a desired programming selection.

* * * * *

UNITED STATES DISTRICT COURT, CENTRAL DISTRICT OF CALIFORNIA
CIVIL COVER SHEET

I (a) PLAINTIFFS (Check box if you are representing yourself ☐)
OLYMPIC DEVELOPMENTS AG, LLC

DEFENDANTS
MICROSOFT CORPORATION, NINTENDO OF AMERICA, INC, SONY COMPUTER ENTERTAINMENT OF AMERICA, LLC, VALVE CORPORATION

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

Steven W. Ritcheson, White Field, Inc., 818-882-1030
9800 D. Topanga Canyon Blvd. #347
Chatsworth, CA 91311

Attorneys (If Known)

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

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

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

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

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

☑ 1 Original Proceeding ☐ 2 Removed from State Court ☐ 3 Remanded from Appellate Court ☐ 4 Reinstated or Reopened ☐ 5 Transferred from another district (specify): ☐ 6 Multi-District Litigation ☐ 7 Appeal to District Judge from Magistrate Judge

V. REQUESTED IN COMPLAINT: **JURY DEMAND:** ☑ Yes ☐ No (Check 'Yes' only if demanded in complaint.)

CLASS ACTION under F.R.C.P. 23: ☐ Yes ☑ No **☑ MONEY DEMANDED IN COMPLAINT: $** TBD

VI. CAUSE OF ACTION (Cite the U.S. Civil Statute under which you are filing and write a brief statement of cause. Do not cite jurisdictional statutes unless diversity.)
35 USC 271 et seq. - patent infringement

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

OTHER STATUTES
☐ 400 State Reapportionment
☐ 410 Antitrust
☐ 430 Banks and Banking
☐ 450 Commerce/ICC Rates/etc.
☐ 460 Deportation
☐ 470 Racketeer Influenced and Corrupt Organizations
☐ 480 Consumer Credit
☐ 490 Cable/Sat TV
☐ 810 Selective Service
☐ 850 Securities/Commodities/ Exchange
☐ 875 Customer Challenge 12 USC 3410
☐ 890 Other Statutory Actions
☐ 891 Agricultural Act
☐ 892 Economic Stabilization Act
☐ 893 Environmental Matters
☐ 894 Energy Allocation Act
☐ 895 Freedom of Info. Act
☐ 900 Appeal of Fee Determination Under Equal Access to Justice
☐ 950 Constitutionality of State Statutes

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

REAL PROPERTY
☐ 210 Land Condemnation
☐ 220 Foreclosure
☐ 230 Rent Lease & Ejectment
☐ 240 Torts to Land
☐ 245 Tort Product Liability
☐ 290 All Other Real Property

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

IMMIGRATION
☐ 462 Naturalization Application
☐ 463 Habeas Corpus-Alien Detainee
☐ 465 Other Immigration Actions

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

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

CIVIL RIGHTS
☐ 441 Voting
☐ 442 Employment
☐ 443 Housing/Accommodations
☐ 444 Welfare
☐ 445 American with Disabilities - Employment
☐ 446 American with Disabilities - Other
☐ 440 Other Civil Rights

PRISONER PETITIONS
☐ 510 Motions to Vacate Sentence Habeas Corpus
☐ 530 General
☐ 535 Death Penalty
☐ 540 Mandamus/ Other
☐ 550 Civil Rights
☐ 555 Prison Condition

FORFEITURE / PENALTY
☐ 610 Agriculture
☐ 620 Other Food & Drug
☐ 625 Drug Related Seizure of Property 21 USC 881
☐ 630 Liquor Laws
☐ 640 R.R. & Truck
☐ 650 Airline Regs
☐ 660 Occupational Safety /Health
☐ 690 Other

LABOR
☐ 710 Fair Labor Standards Act
☐ 720 Labor/Mgmt. Relations
☐ 730 Labor/Mgmt. Reporting & Disclosure Act
☐ 740 Railway Labor Act
☐ 790 Other Labor Litigation
☐ 791 Empl. Ret. Inc. Security Act

PROPERTY RIGHTS
☐ 820 Copyrights
☑ 830 Patent
☐ 840 Trademark

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

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

FOR OFFICE USE ONLY: Case Number: CV 10 8874

AFTER COMPLETING THE FRONT SIDE OF FORM CV-71, COMPLETE THE INFORMATION REQUESTED BELOW.

UNITED STATES DISTRICT COURT, CENTRAL DISTRICT OF CALIFORNIA
CIVIL COVER SHEET

VIII(a). IDENTICAL CASES: Has this action been previously filed in this court and dismissed, remanded or closed? ✓No ☐Yes
If yes, list case number(s):

VIII(b). RELATED CASES: Have any cases been previously filed in this court that are related to the present case? ✓No ✓Yes
If yes, list case number(s): CV10-7237-GW (PLAx) and CV10 - 8545 -CAS (JC)

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

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

(a) List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** named plaintiff resides.
☐ Check here if the government, its agencies or employees is a named plaintiff. If this box is checked, go to item (b).

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

(b) List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** named defendant resides.
☐ Check here if the government, its agencies or employees is a named defendant. If this box is checked, go to item (c).

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

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

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

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

X. SIGNATURE OF ATTORNEY (OR PRO PER): _____ Date 11-18-10

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

Key to Statistical codes relating to Social Security Cases:

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