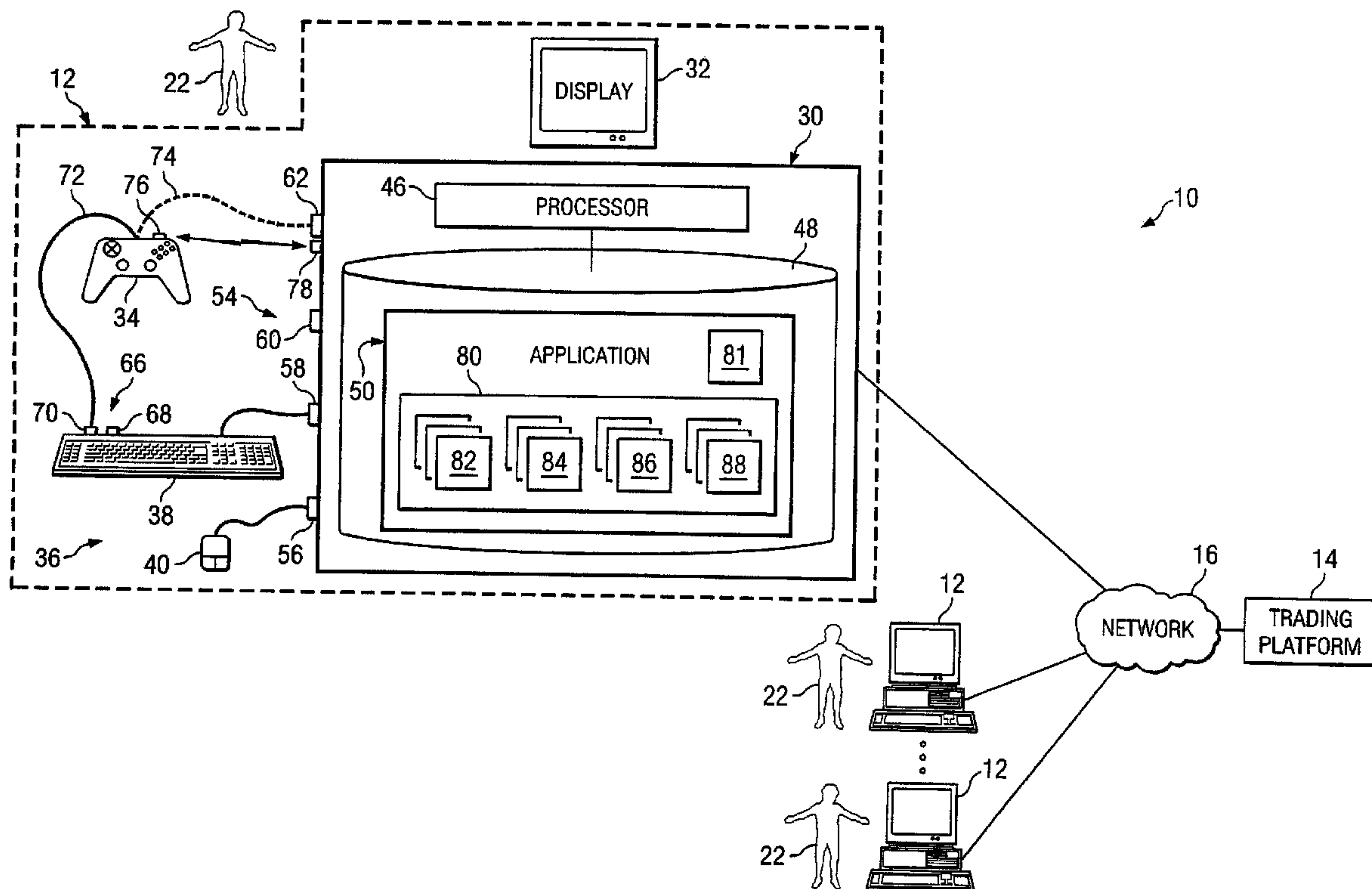




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(71) Demandeur/Applicant:
ESPEED, INC., US
(72) Inventeur/Inventor:
LONGMAN, JAMES A., GB
(74) Agent: KIRBY EADES GALE BAKER

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(57) **Abrégé/Abstract:**

According to one embodiment, a system for electronic trading is provided. The system includes an interface application having an associated mapping module that defines a plurality of controller signal relationships. Each controller signal relationship associates a game controller signal with a trading system command associated with the electronic trading of financial instruments. The interface application is operable to receive a particular game controller signal, determine the trading system command associated with the particular game controller signal using the mapping module, and communicate the determined trading system command such that the trading system command is executed.



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(71) Applicant (for all designated States except US): **ESPEED, INC.** [US/US]; 135 E. 57th Street, New York, NY 10022 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LONGMAN, James, A.** [GB/GB]; Flat D, 80 Union Road, Clapham, London SW4 6JU (GB).

(74) Agent: **BHAVSAR, Samir, A.**; Baker Botts LLP, 2001 Ross Avenue, Dallas, TX 75201 (US).

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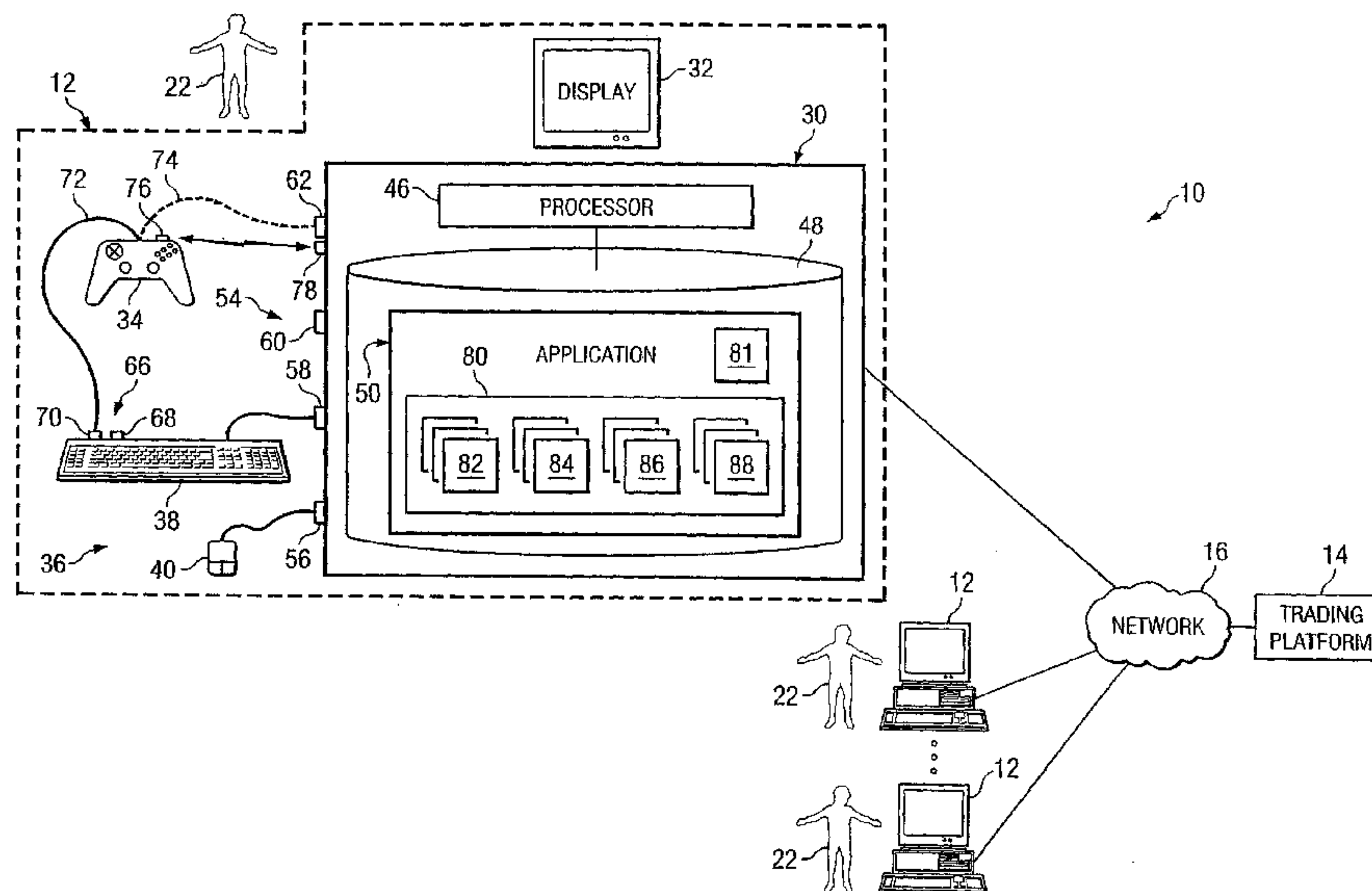
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(54) Title: SYSTEM AND METHOD FOR USING A GAME CONTROLLER DEVICE FOR ELECTRONIC TRADING



(57) Abstract: According to one embodiment, a system for electronic trading is provided. The system includes an interface application having an associated mapping module that defines a plurality of controller signal relationships. Each controller signal relationship associates a game controller signal with a trading system command associated with the electronic trading of financial instruments. The interface application is operable to receive a particular game controller signal, determine the trading system command associated with the particular game controller signal using the mapping module, and communicate the determined trading system command such that the trading system command is executed.

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SYSTEM AND METHOD FOR USING A GAME CONTROLLER DEVICE FOR ELECTRONIC TRADING

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TECHNICAL FIELD OF THE INVENTION

This invention relates in general to electronic trading and, more particularly, to a system and method for using a game controller device for electronic trading.

10 BACKGROUND OF THE INVENTION

In recent years, electronic trading systems have gained a widespread acceptance for trading items. For example, electronic trading systems have been created which facilitate the trading of financial instruments such as stocks, bonds, currency, futures, or other suitable financial instruments. Such electronic trading systems often have a number of clients or terminals connected to a trading platform by a communications network, such as the Internet or a virtual private network, for example. Each client or terminal of such a trading system may include various input devices, such as keyboards or mice. In some instances, users may use keyboards that are specifically designed or configured for use in an electronic trading system.

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SUMMARY OF THE INVENTION

In accordance with the present invention, systems and methods for using an interface device for electronic trading are provided.

According to one embodiment, a system for electronic trading is provided. The system includes an interface application having an associated mapping module that defines a plurality of controller signal relationships. Each controller signal relationship associates a game controller signal with a trading system command associated with the electronic trading of financial instruments. The interface application is operable to receive a particular game controller signal, determine the trading system command associated with the particular game controller signal using the mapping module, and communicate the determined trading system command such that the trading system command is executed.

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According to another embodiment, a method of electronic trading is provided. A plurality of controller signal relationships are managed. Each controller signal relationship associates a game controller signal with a trading system command associated with the electronic trading of financial instruments via a trading platform. A particular

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game controller signal generated by a game controller is received. The trading system command associated with the particular game controller signal is determined based on the controller signal relationships. The determined trading system command is communicated toward the trading platform such that the trading system command may be executed by the trading platform.

Various embodiments of the present invention may benefit from numerous advantages. It should be noted that one or more embodiments may benefit from some, none, or all of the advantages discussed below.

One advantage of the invention is that a game controller, such as a gamepad or joystick, may be used to trade electronically tradable instruments or other items via a trading system. This may allow users to performing various trading functions with greater speed and accuracy than with other input devices, such as keyboard or mouses. In addition, some users may be more familiar with using a game controller than using a keyboard or mouse.

Another advantage of the invention is a user terminal may store game controller configurations for various types and/or models of game controllers such that different types and/or models of game controllers may be used interchangeably with a particular user terminal. In addition, a game controller may be configurable such that a user may configure the game controller as he or she desires. Thus, the game controller may be personalized for the user, which may further increase the speed and accuracy with which the user can perform trading functions, such as buying or selling financial instruments, for example.

Other advantages will be readily apparent to one having ordinary skill in the art from the following figures, descriptions, and claims.

BRIEF DESCRIPTION OF THE DRAWINGS

For a more complete understanding of the present invention and for further features and advantages, reference is now made to the following description, taken in conjunction with the accompanying drawings, in which:

FIGURE 1 illustrates an example trading system in which a user may engage in trading activity using a game controller device according to an embodiment of the present invention;

FIGURE 2 illustrates an example game controller device for use in the trading system shown in FIGURE 1;

FIGURE 3 illustrates a table that specifies example default controller signal relationships for the game controller device shown in FIGURE 2 in accordance with one embodiment of the invention;

FIGURE 4 illustrates an example method of a user engaging in electronic trading via trading platform using the game controller device shown in FIGURE 2 and configured according to FIGURE 3; and

FIGURE 5 illustrates an example method of configuring and reconfiguring the controller signal relationships associated with a game controller device according to one embodiment of the invention.

DETAILED DESCRIPTION OF THE DRAWINGS

Example embodiments of the present invention and their advantages are best understood by referring now to FIGURES 1 through 5 of the drawings, in which like numerals refer to like parts.

In general, a game controller device, such as a gamepad or joystick, is used to interface with a electronic trading system, such as to place orders to buy or sell financial instruments, for example. Configurations for various types and/or models of game controllers may be stored and managed such that different types and/or models of game controllers may be used interchangeably at a user terminal. In addition, a game controller may be configurable such that a user may configure the game controller as he or she desires.

FIGURE 1 illustrates an example trading system 10 in which a user may engage in trading activity using a game controller device according to an embodiment of the present invention. As shown, system 10 includes a number of user terminals 12 coupled to a trading platform 14 by a communications network 16. User terminals 12 provide users 22 access to engage in trading activity via trading platform 14. A user 22 is any entity, such as an individual, group of individuals or firm, that engages in trading activity via trading system 10.

Trading platform 14 is a trading architecture that facilitates the electronic trading of financial instruments, such as stocks or other equity securities, bonds, mutual funds, options, futures, derivatives, and currencies, for example, or any other suitable instruments, goods or services between users 22. Trading platform 14 may be a computer, a server, a management center, a single workstation, or a headquartering office for any

person, business, or entity that seeks to manage trading between users 22 of system 10. Accordingly, trading platform 14 may include any suitable hardware, software, personnel, devices, components, elements, or objects that may be utilized or implemented to achieve the operations and functions of an administrative body or a supervising entity that manages or administers a trading environment.

Trading platform 14 may be operable to receive trading orders from users 22 and to manage or process those trading orders such that financial transactions between users 22 may be performed. Trading module may have a link or a connection to a market trading floor, or some other suitable coupling to any suitable element that allows for such transactions to be executed.

Communications network 16 is a communicative platform operable to exchange data or information between trading platform 14 and user terminals 30. Communications network 16 represents an Internet architecture in a particular embodiment of the present invention, which provides users 22 with the ability to electronically execute trades or initiate transactions to be delivered to an authorized exchange trading floor. In other embodiments, communications system 14 could be any packet data network (PDN) offering a communications interface or exchange between trading platform 14 and user terminals 30. Communications network 16 may alternatively be any local area network (LAN), metropolitan area network (MAN), wide area network (WAN), wireless local area network (WLAN), virtual private network (VPN), intranet, or any other appropriate architecture or system that facilitates communications in a network environment.

A user terminal 12 may include a computer system and appropriate software to allow user 22 to engage in trading activity via trading platform 14. As used in this document, the term "computer" refers to any suitable device operable to accept input, process the input according to predefined rules, and produce output, for example, a personal computer, workstation, network computer, wireless data port, wireless telephone, personal digital assistant, one or more processors within these or other devices, or any other suitable processing device.

As shown in FIGURE 1, a user terminal 12 may include a terminal body 30, a display device 32, and a game controller input device 34. User terminal 12 may also include one or more additional input devices 36, such as a keyboard 38 and a mouse 40. Display device 32 may be any suitable device for displaying information to a user 22, such as an internal notebook display, a CRT monitor, or a television, for example.

Terminal body 30 includes a processing unit 46 and a memory unit 48 that stores an interface application 50, which is discussed below. Processing unit 46 may process data associated with system 10, which may include executing coded instructions associated with interface application 50. Memory unit 46 may be coupled to data processing unit 46 and may include one or more databases and other suitable memory devices, such as one or more random access memories (RAMs), read-only memories (ROMs), dynamic random access memories (DRAMs), fast cycle RAMs (FCRAMs), static RAM (SRAMs), field-programmable gate arrays (FPGAs), erasable programmable read-only memories (EPROMs), electrically erasable programmable read-only memories (EEPROMs), microcontrollers, or microprocessors.

Terminal body 30 also includes one or more input ports 54, each of which provides an interface for coupling game controller input device 34, one or more additional input devices 36 and/or other peripheral devices to interface application 50. Input ports 54 may include various types of interfaces, such as USB type ports (such as USB type I or type II ports, for example), keyboard ports, mouse ports, serial ports, parallel ports, or Bluetooth (TM) or FireWire (TM) ports, for example. In the example embodiment shown in FIGURE 1, terminal body 30 includes a mouse port 56 for mouse 40, a keyboard port 58 for keyboard 38, a serial port 60, and a USB type port 62. In this embodiment, game controller device 34 may be coupled to either serial port 60 or USB type port 62, depending on the type of cable and/or plug provided by the game controller device 34.

In addition, keyboard 38 may include one or more input ports 64 that allow other input devices to be plugged into keyboard 38. Signals generated by an input device connected to an input port 64 provided by keyboard 38 are routed through keyboard 38 and keyboard port 58 to which keyboard 38 is coupled. In the embodiment shown in FIGURE 1, keyboard 38 is a customized keyboard 38 designed for electronic trading applications, and includes a serial port 68 and a USB type port 70. In some embodiments, a particular game controller device 34 may be able to be coupled directly to an input port 54 of terminal body 30, or to an input port 66 of keyboard 38, which is in turn connected to keyboard port 58 of terminal body 30. In the embodiment shown in FIGURE 1, game controller device 34 includes a USB cable 72 which may be plugged into USB type port 70 of keyboard 38 or directly into USB type port 62 of terminal body 30 (as shown by dotted line 74). Alternatively, game controller device 34 may communicate with interface application 50 at least in part via wireless communications. For example, as shown in

FIGURE 1, game controller device 34 may include a wireless transceiver 76 that may communicate wirelessly with a wireless transceiver 78 associated with terminal body 30. Such wireless communications may utilize any suitable wireless communications protocol or protocols.

5 Game controller input device 34 may be any of a variety of input devices used in connection with video or computer gaming, such as a handheld video game controller, a joystick or a gamepad, for example. Some game controller devices 34 include a number of buttons as well as one or more joysticks or directional pads (D-pads). The depression or manipulation of such buttons, joysticks and/or D-pads by a user 22 generates game
10 controller signals which may be received and interpreted by interface application 50 in order to generate commands related to the functions of trading system 10, as discussed below. Similarly, keyboard 38 and mouse 40 may generate keyboard signals and mouse signals, respectively, which may be received and interpreted by interface application 50 in order to generate commands related to the functions of trading system 10.

15 Interface application 50 includes one or more applications and modules that provide interfaces that allow user 22 to communicate with trading platform 14 using various input devices 34 and display device 32. For example, such applications and modules may include graphical user interface (GUI) applications that generate displays of information on display device 32, receive and interpret commands from input devices 34
20 in order to cause changes to the active display on display device 32 and to generate and send messages to trading platform 14, and receive and interpret messages from trading platform 14 in order to cause changes to the active display on display device 32 and/or to generate and send messages to input devices 34. Interface application 50 may include any suitable software or coded instructions for providing at least the various functionality
25 discussed herein with reference to interface application 50.

 In the embodiment shown in FIGURE 1, interface application 50 includes a mapping module 80 and a configuration module 81. Mapping module 80 defines various relationships for mapping signals received from various input devices 34 with various commands regarding trading system 10. Mapping module 80 includes controller signal
30 relationships 82, keyboard signal relationships 84, and mouse signal relationships 86. Each controller signal relationship 82 associates a game controller signal generated by a game controller device 34 with a trading system command associated with trading system 10. Each trading system command may be a control instruction to alter or manipulate the

current display shown on display device 32 (such as an instruction to move a cursor across the display 32, for example) and/or a trading instruction that may be communicated to or from trading platform 14 (such as an instruction to buy, sell, or increase a price, for example).

5 Mapping module 80 may include sets of such controller signal relationships 82 for various types or models of game controller devices 34, as well as for various users 22. Thus, if more than one type or model of game controller device 34 is used with a particular user terminal 30, controller signal relationships 82 specific to each type or model of game controller device 34 may be stored in and retrieved from mapping module
10 80. In addition, if more than one user 22 uses a particular user terminal 30, controller signal relationships 82 specific to each such user may be stored in and retrieved from mapping module 80. The controller signal relationships 82 for each type or model of game controller device 34 and/or for each user 22 may be configurable or reconfigurable such that each user 22 may create his or her own desired configuration. In addition, each
15 type or model of game controller device 34 may have a default configuration of controller signal relationships 82 maintained by mapping module 80.

Similar to controller signal relationships 82, each keyboard signal relationship 84 associates a keyboard signal generated by a keyboard 38 with a trading system command associated with trading system 10. Similarly, each mouse signal relationship 86 associates
20 a mouse signal generated by a mouse 40 with a trading system command associated with trading system 10.

Mapping module 80 may also include one or more sets of feedback signal relationships 88, each associating a signal generated by trading platform 14 with a controller feedback command. Controller feedback commands are commands that may be
25 used by game controller device 34 to provide feedback to a user 22 of game controller device 34. For example, controller feedback commands may include commands which cause game controller device 34 to rumble (i.e., vibrate) or light up. In one embodiment, feedback signal relationships 88 for a particular game controller device 34 include a relationship between an “executed trade” signal generated by trading platform 14 and a
30 “rumble” command for game controller device 34. Thus, when trading platform 14 executes a trade involving a user 22, trading platform 14 generates and communicates an “executed trade” signal to interface application 50, which translates the signal into a

“rumble” command and communicates the “rumble” command to game controller device 34, thus causing the game controller device 34 to vibrate.

Configuration module 81 cooperates with mapping module 80 to allow users 22 to configure (or generate) and/or reconfigure various controller signal relationships 82. In some embodiments, configuration module 81 provides a controller configuration GUI on display device 32 that allows a user 22 to configure, or generate, a set of controller signal relationships 82 associated with an unconfigured game controller device 34, as well as to reconfigure the set of controller signal relationships 82 associated with a previously configured game controller device 34. In a particular embodiment, the controller signal relationships 82 associated with a game controller device 34 may be reconfigured any number of times.

Mapping module 80 and configuration module 81 may include all or portions of the software or coded instructions associated with interface application 50. Mapping module 80 and configuration module 81 may also be partially or completely integrated. In addition, multiple instances of mapping module 80 and/or configuration module 81 may be provided by application 50.

FIGURE 2 illustrates an example game controller device 34 for use in trading system 10. Game controller device 34 is a gamepad that includes a D-pad, a pair of joysticks (Joystick A and Joystick B), and nine buttons (Button A through Button J). FIGURE 3 illustrates a table 90 that specifies example default controller signal relationships 82 for the game controller device 34 of FIGURE 2 in accordance with one embodiment of the invention. As shown in FIGURE 3, each controller signal relationship 82 is a relationship between the signal(s) produced by the manipulation of one or more gamepad controls and a trading system command.

FIGURE 4 illustrates an example method of a user 22 engaging in electronic trading via trading platform 14 using the game controller device 34 shown in FIGURE 2 and configured as described above according to an embodiment of the present invention. In this embodiment, the game controller device 34 is connected to a serial port 68 provided by a keyboard 38 at a user terminal 12, which in turn is connected to a keyboard port 58 of the terminal body 30 of the user terminal 12. Thus, game controller signals generated by game controller device 34 are routed to application 50 via keyboard 38.

At step 100, mapping module 80 of interface application 50 manages various sets of controller signal relationships 82, keyboard relationships 84, and mouse relationships

86 which map input signals with commands associated with trading activity within trading system 10. The controller signal relationships 82 include the set of relationships shown in FIGURE 3, which are the specific to the type and model of game controller device 34. At step 102, the appropriate set of controller signal relationships 82 for game controller device 34 are identified from mapping module 80. This may involve any suitable steps or processes. For example, interface application 50 may automatically identify the type and/or model of game controller device 34 based on signals or messages received from game controller device 34, such as a control message, for example. As another example, the user 22 may identify the type and/or model of game controller device 34 using a GUI displayed to the user 22 by interface application 50, such as by selecting the appropriate type and/or model from a list of different game controller device types and/or models. In addition, if user 22 had previously reconfigured the controller signal relationships 82 for game controller device 34, interface application 50 may identify the appropriate controller signal relationships 82 for user 22 and game controller device 34. For example, interface application 50 may identify user 22 (such as from a user ID entered by user 22, for example) and present to the user 22 a display listing one or more sets of controller signal relationships 82 that have been stored at mapping module 80 in association with user 22. User 22 may then select from the list the desired set of controller signal relationships 82.

At step 104, user 22 initiates a game controller signal by moving the D-pad or joysticks and/or depressing one or more buttons of game controller device 34. At step 106, the game controller signal is communicated from game controller device 34 to application 50 via serial port 68, keyboard 38, and keyboard port 58. At step 108, interface application 50 determines the trading system command associated with the received game controller signal using the appropriate controller signal relationships 82 identified at step 102, and acts accordingly. At step 110, interface application 50 determines whether the determined trading system command is a control instruction to alter or manipulate the current display shown on display device 32 or a trading instruction to be communicated to trading platform 14. If the trading system command is a control instruction, interface application 50 generates the control instruction at step 112, which results in the appropriate change or manipulate the current display. For example, if the game controller signal was generated by user 22 moving Joystick A (which is associated with a "move cursor" command, as shown in FIGURE 3), interface application 50 will cause the cursor to be moved around the screen.

Alternatively, if the trading system command is a trading instruction, interface application 50 generates and communicates the appropriate trading instruction to trading platform 14 at step 114. The appropriate action is taken by trading platform 14 in response to the received trading instruction at step 116. For example, if the game controller signal was generated by user 22 depressing both Button 7 and Button 6 (which is associated with a “bid” command, as shown in FIGURE 3), interface application 50 will generate and communicate to trading platform 14 an instruction to place a particular bid for user 22 at step 114, and trading platform 14 will receive the instruction and place the bid on trading platform 14 at step 116. Steps 104 through 116 are repeated as user 22 continues to interact with interface application 50 using game controller device 34 in order to engage in trading activity with trading platform 14.

At step 118, trading platform 14 executes a trade between an buy order placed by user 22 and a sell order placed by another user 22' of system 10. At step 120, trading platform 14 generates and communicates to interface application 50 a signal indicating that the buy order was executed for user 22. At step 122, interface application 50 determines, using appropriate feedback signal relationships 88, that the received signal is associated with a “rumble” controller feedback command. At step 124, interface application 50 communicates the “rumble” command to game controller device 34, which causes game controller device 34 to rumble, or vibrate.

FIGURE 5 illustrates an example method of configuring and reconfiguring the controller signal relationships 82 associated with a game controller device 34 according to one embodiment of the invention. At step 150, interface application identifies that a game controller device 34 connected to terminal body 30 is not configured. At step 152, configuration module 81 provides a controller configuration GUI on display device 32 that allows user 22 to configure, or generate, a set of controller signal relationships 82 for the unconfigured game controller device 34. At step 154, user 22 generates and communicates configuration instructions to configuration module 81 via the controller configuration GUI, such as by making selections using the game controller device 34 or another input device 36, such as a keyboard 38 or mouse 40. At step 156, configuration module 81 generates controller signal relationships 82, which are stored by mapping module 80 in association with the game controller device 34 and/or user 22. At step 158, user 22 engages in trading via trading platform 14 using the configured game controller device 34.

At some subsequent time, user 22 wishes to reconfigure one or more of the controller signal relationships 82 for the game controller device 34. At step 160, user 22 submits a request to reconfigure controller signal relationships 82 for game controller device 34. At step 162, configuration module 81 provides a controller reconfiguration GUI on display device 32 that allows user 22 to reconfigure the existing set of controller signal relationships 82 for the game controller device 34. The controller reconfiguration GUI may be similar or identical to the controller configuration GUI discussed above with reference to step 152. At step 164, user 22 generates and communicates reconfiguration instructions to configuration module 81 via the controller reconfiguration GUI, such as by making selections using the game controller device 34 or another input device 36, such as a keyboard 38 or mouse 40. At step 166, configuration module 81 reconfigures, or changes, one or more controller signal relationships 82, which changes are then stored by mapping module 80. At step 168, user 22 engages in trading via trading platform 14 using the reconfigured game controller device 34.

Modifications, additions, or omissions may be made to the method without departing from the scope of the invention. Additionally, steps may be performed in any suitable order without departing from the scope of the invention.

Although an embodiment of the invention and its advantages are described in detail, a person skilled in the art could make various alterations, additions, and omissions without departing from the spirit and scope of the present invention as defined by the appended claims.

WHAT IS CLAIMED IS:

1. A system for electronic trading, comprising:

an interface application including a mapping module that defines a plurality of controller signal relationships, each controller signal relationship associating one of a plurality of game controller signals with one of a plurality of trading system commands associated with the electronic trading of financial instruments;

wherein the interface application is operable to receive a particular game controller signal, determine the trading system command associated with the particular game controller signal using the mapping module, and communicate the determined trading system command such that the trading system command is executed.

2. The system of Claim 1, wherein the mapping module further defines a plurality of keyboard signal relationships, each keyboard signal relationship associating one of a plurality of keyboard signals with one of the plurality of trading system commands.

3. The system of Claim 1, further comprising:

an input port in communication with the interface application; and

a game controller operable to produce the plurality of game controller signals, the game controller configured to interface with the input port such that the game controller signals produced by the game controller are communicated to the interface application via the input port.

4. The system of Claim 3, wherein the input port is a USB type port.

5. The system of Claim 3, wherein the input port is a serial port.

6. The system of Claim 1, further comprising:

a keyboard input port in communication with the interface application;

a keyboard operable to produce keyboard signals and configured to interface with the keyboard input port such that keyboard signals produced by the keyboard are communicated to the interface application via the keyboard input port, the keyboard including a controller input port; and

a game controller operable to produce the plurality of game controller signals, the game controller configured to interface with the controller input port such that the game

controller signals produced by the game controller are communicated to the interface application via the keyboard.

7. The system of Claim 6, wherein the controller input port is a USB type
5 port.

8. The system of Claim 6, wherein the controller input port is a serial port.

9. The system of Claim 6, wherein the mapping module further defines a
plurality of keyboard signal relationships, each keyboard signal relationship associating
one of a plurality of keyboard signals produced by the keyboard with one of the plurality
10 of trading system commands.

10. The system of Claim 1,
wherein the mapping module further defines one or more feedback signal
relationships, each feedback signal relationship associating a trading platform signal with
a controller feedback command; and

15 wherein the interface application is further operable to receive a particular trading
platform signal from a trading platform, determine the controller feedback command
associated with the particular trading platform signal using the mapping module, and
communicate the determined controller feedback command toward a game controller.

11. The system of Claim 1, wherein the determined controller feedback
20 command comprises a command to vibrate the game controller.

12. The system of Claim 1, wherein the interface application is further operable
to:

provide to a user a controller configuration interface;
receive via the controller configuration interface one or more configuration
25 instructions; and

generate one or more of the plurality of controller signal relationships based on the
received configuration instructions.

13. The system of Claim 1, wherein the interface application is further operable
to:

30 provide to a user a controller configuration interface;

receive via the controller configuration interface one or more reconfiguration instructions; and

reconfigure one or more of the plurality of controller signal relationships based on the received reconfiguration instructions.

- 5 14. A method for electronic trading, comprising:
- managing a plurality of controller signal relationships, each controller signal relationship associating one of a plurality of game controller signals with one of a plurality of trading system commands associated with the electronic trading of financial instruments via a trading platform;
- 10 receiving a particular game controller signal generated by a game controller;
- determining the trading system command associated with the particular game controller signal based on the controller signal relationships; and
- communicating the determined trading system command toward the trading platform such that the trading system command may be executed by the trading platform.

- 15 15. The method of Claim 14, further comprising:
- managing a plurality of keyboard signal relationships, each keyboard signal relationship associating one of a plurality of keyboard signals with one of the plurality of trading system commands;
- 20 receiving a particular keyboard signal generated by a keyboard;
- determining the trading system command associated with the particular keyboard signal based on the keyboard signal relationships; and
- communicating the determined trading system command toward the trading platform such that the trading system command may be executed by the trading platform.

- 25 16. The method of Claim 14, wherein the particular game controller signal generated by the game controller is received via a USB type port.

 17. The method of Claim 14, wherein the particular game controller signal generated by the game controller is received via a serial port.

18. The method of Claim 14,
- 30 wherein the game controller is coupled to a controller input port provided by a keyboard; and

wherein the particular game controller signal generated by the game controller is received via the controller input port.

19. The method of Claim 18, wherein the controller input port is a USB type port.

5 20. The method of Claim 18, wherein the controller input port is a serial port.

21. The method of Claim 18, further comprising:

managing a plurality of keyboard signal relationships, each keyboard signal relationship associating one of a plurality of keyboard signals with one of the plurality of trading system commands;

10 receiving a particular keyboard signal generated by the keyboard;

determining the trading system command associated with the particular keyboard signal based on the keyboard signal relationships; and

communicating the determined trading system command toward the trading platform such that the trading system command may be executed by the trading platform.

15 22. The method of Claim 14, further comprising:

managing one or more feedback signal relationships, each feedback signal relationship associating a trading platform signal with a controller feedback command;

receiving a particular trading platform signal from a trading platform;

20 determining the controller feedback command associated with the particular trading platform signal based on the feedback signal relationships; and

communicating the determined controller feedback command toward the game controller.

23. The method of Claim 22, wherein the determined controller feedback command comprises a command to vibrate the game controller.

25 24. The method of Claim 14, further comprising:

providing to a user a controller configuration interface;

receiving via the controller configuration interface one or more configuration instructions; and

30 generating one or more of the plurality of controller signal relationships based on the received configuration instructions.

25. The method of Claim 14, further comprising:
providing to a user a controller configuration interface;
receiving via the controller configuration interface one or more reconfiguration
5 instructions; and
reconfiguring one or more of the plurality of controller signal relationships based
on the received reconfiguration instructions.

26. A system for managing trading, comprising:
a computer system having a processor; and
10 a computer readable medium coupled to the computer system, the computer
readable medium comprising a program operable, when executed by the processor, to:
manage a plurality of controller signal relationships, each controller signal
relationship associating one of a plurality of game controller signals with one of a plurality
of trading system commands associated with the electronic trading of financial instruments
15 via a trading platform;
receive a particular game controller signal generated by a game controller;
determine the trading system command associated with the particular game
controller signal based on the controller signal relationships; and
communicate the determined trading system command toward the trading
20 platform such that the trading system command may be executed by the trading platform.

27. The system of Claim 26, wherein the program is further operable to:
manage a plurality of keyboard signal relationships, each keyboard signal
relationship associating one of a plurality of keyboard signals with one of the plurality of
25 trading system commands;
receive a particular keyboard signal generated by a keyboard;
determine the trading system command associated with the particular keyboard
signal based on the keyboard signal relationships; and
communicate the determined trading system command toward the trading platform
30 such that the trading system command may be executed by the trading platform.

28. The system of Claim 26, wherein the computer system further includes a USB type port, and wherein the particular game controller signal generated by the game controller is received via the USB type port.

5 29. The system of Claim 26, wherein the computer system further includes a serial port, and wherein the particular game controller signal generated by the game controller is received via the serial port.

10 30. The system of Claim 26,
wherein the computer system further includes a keyboard having a controller input port;
wherein the game controller is coupled to the controller input port; and
wherein the particular game controller signal generated by the game controller is received via the controller input port.

15 31. The system of Claim 30, wherein the controller input port is a USB type port.

20 32. The system of Claim 30, wherein the controller input port is a serial port.

33. The system of Claim 30, wherein the program is further operable to:
manage a plurality of keyboard signal relationships, each keyboard signal relationship associating one of a plurality of keyboard signals with one of the plurality of trading system commands;

25 receive a particular keyboard signal generated by the keyboard;
determine the trading system command associated with the particular keyboard signal based on the keyboard signal relationships; and
communicate the determined trading system command toward the trading platform such that the trading system command may be executed by the trading platform.

34. The system of Claim 26, wherein the program is further operable to:
manage one or more feedback signal relationships, each feedback signal
relationship associating a trading platform signal with a controller feedback command;
receive a particular trading platform signal from a trading platform;
5 determine the controller feedback command associated with the particular trading
platform signal based on the feedback signal relationships; and
communicate the determined controller feedback command toward the game
controller.

10 35. The system of Claim 34, wherein the determined controller feedback
command comprises a command to vibrate the game controller.

36. The system of Claim 26, wherein the program is further operable to:
provide to a user a controller configuration interface;
15 receive via the controller configuration interface one or more configuration
instructions; and
generate one or more of the plurality of controller signal relationships based on the
received configuration instructions.

20 37. The system of Claim 26, wherein the program is further operable to:
provide to a user a controller configuration interface;
receive via the controller configuration interface one or more reconfiguration
instructions; and
reconfigure one or more of the plurality of controller signal relationships based on
25 the received reconfiguration instructions.

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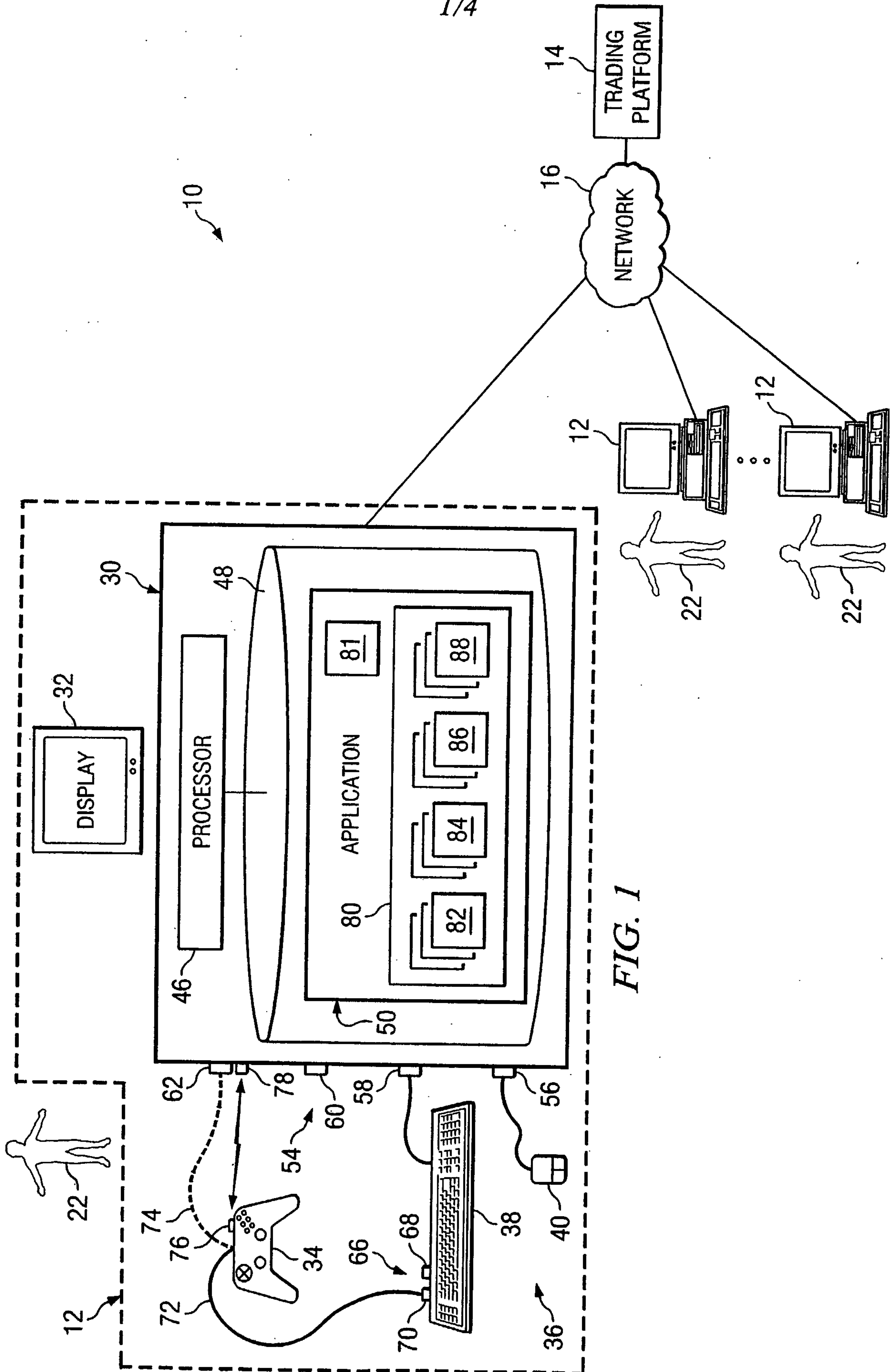
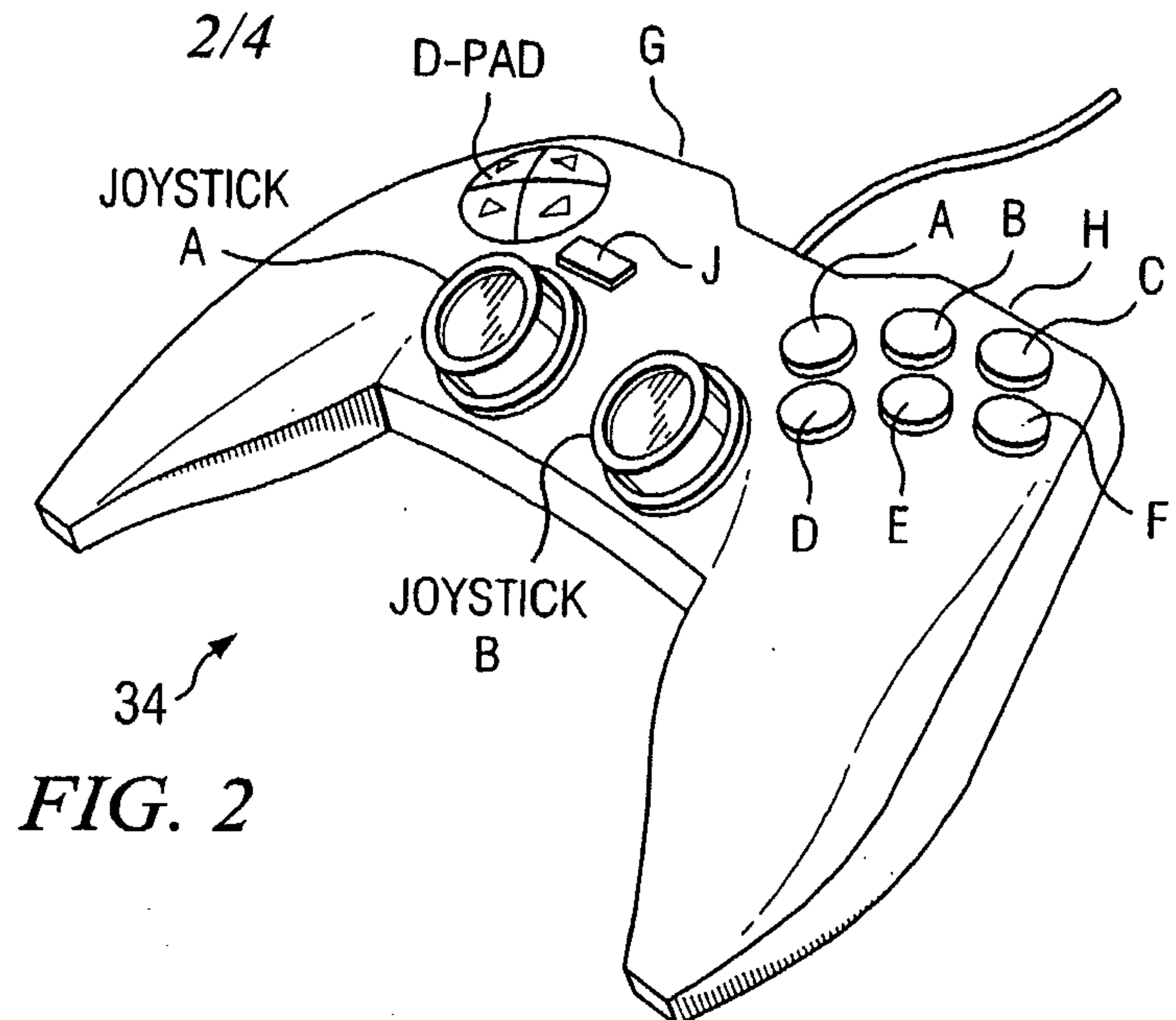


FIG. 1



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GAMEPAD CONTROL	TRADING SYSTEM COMMAND
D-PAD	CHANGE SELECTED INSTRUMENT IN CURRENT VIEW
JOYSTICK A	MOVE CURSOR AROUND SCREEN
JOYSTICK B (UP)	PRICE UP
JOYSTICK B (DOWN)	PRICE DOWN
JOYSTICK B (RIGHT)	SIZE UP
JOYSTICK B (LEFT)	SIZE DOWN
BUTTON G	BUY
BUTTON H	SELL
BUTTON G + BUTTON F	BID
BUTTON H + BUTTON F	OFFER
BUTTON J + BUTTON G	CANCEL BUY
BUTTON J + BUTTON H	CANCEL SELL
BUTTON J + BUTTON F + BUTTON G	CANCEL BID
BUTTON J + BUTTON F + BUTTON H	CANCEL OFFER
BUTTON A	PRICE IMPROVEMENT BEST
BUTTON J + BUTTON A	CYCLE PRICE IMPROVEMENT LEVEL
BUTTON B	DIRECT DEALING (REQUEST FOR QUOTE)
BUTTON J + BUTTON B	TWO-WAY DIRECT DEALING (REQUEST FOR QUOTE)
BUTTON C	DELETE COMMANDLINE
BUTTON J + BUTTON C	BACKSPACE IN COMMANDLINE
BUTTON E	LIMIT
BUTTON F	MOUSE LEFT CLICK
BUTTON J + BUTTON F	MOUSE RIGHT CLICK
BUTTON D + D-PAD	CHANGE SELECTED FIELD WITHIN SELECTED INSTRUMENT

FIG. 3

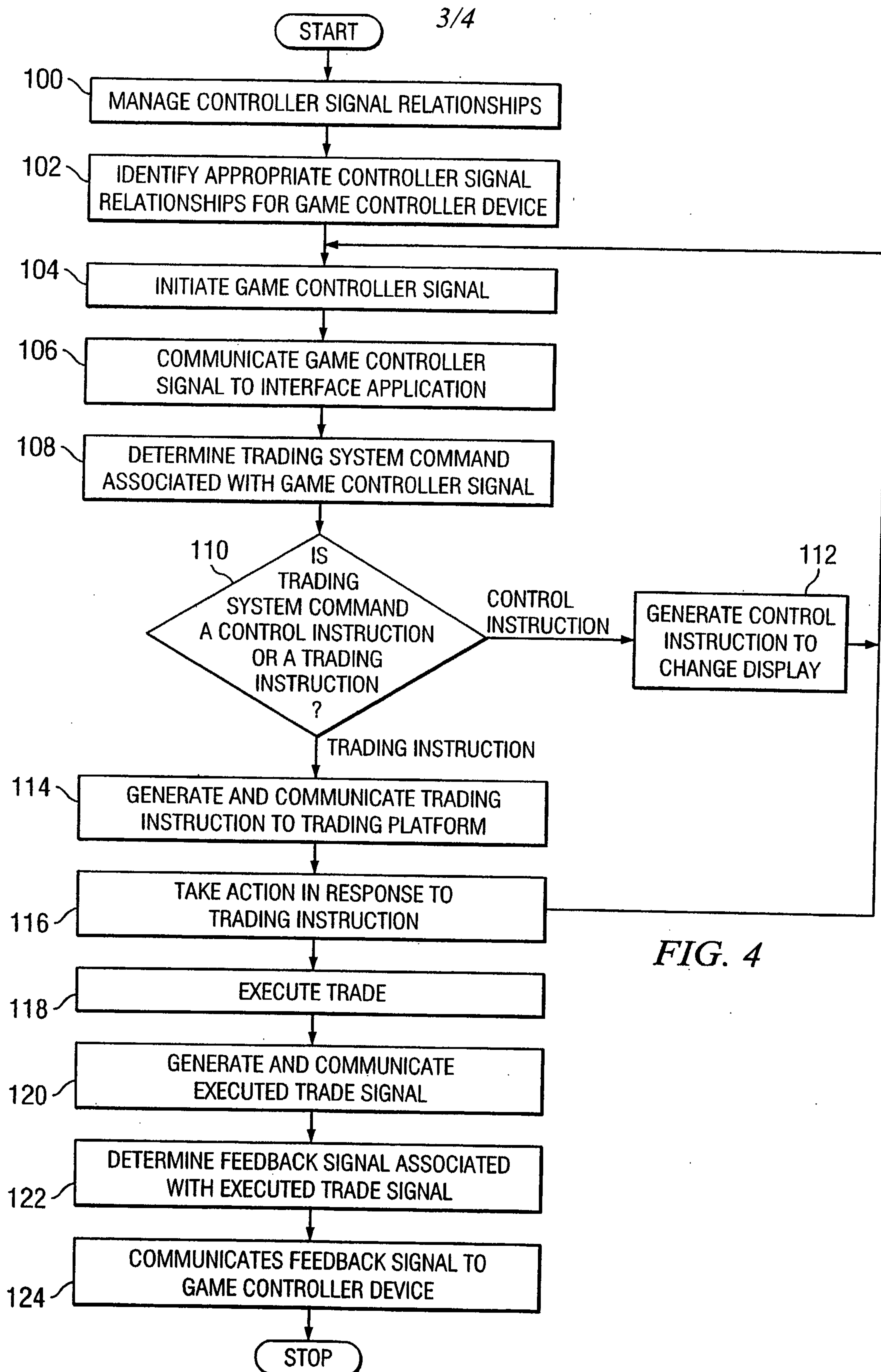


FIG. 4

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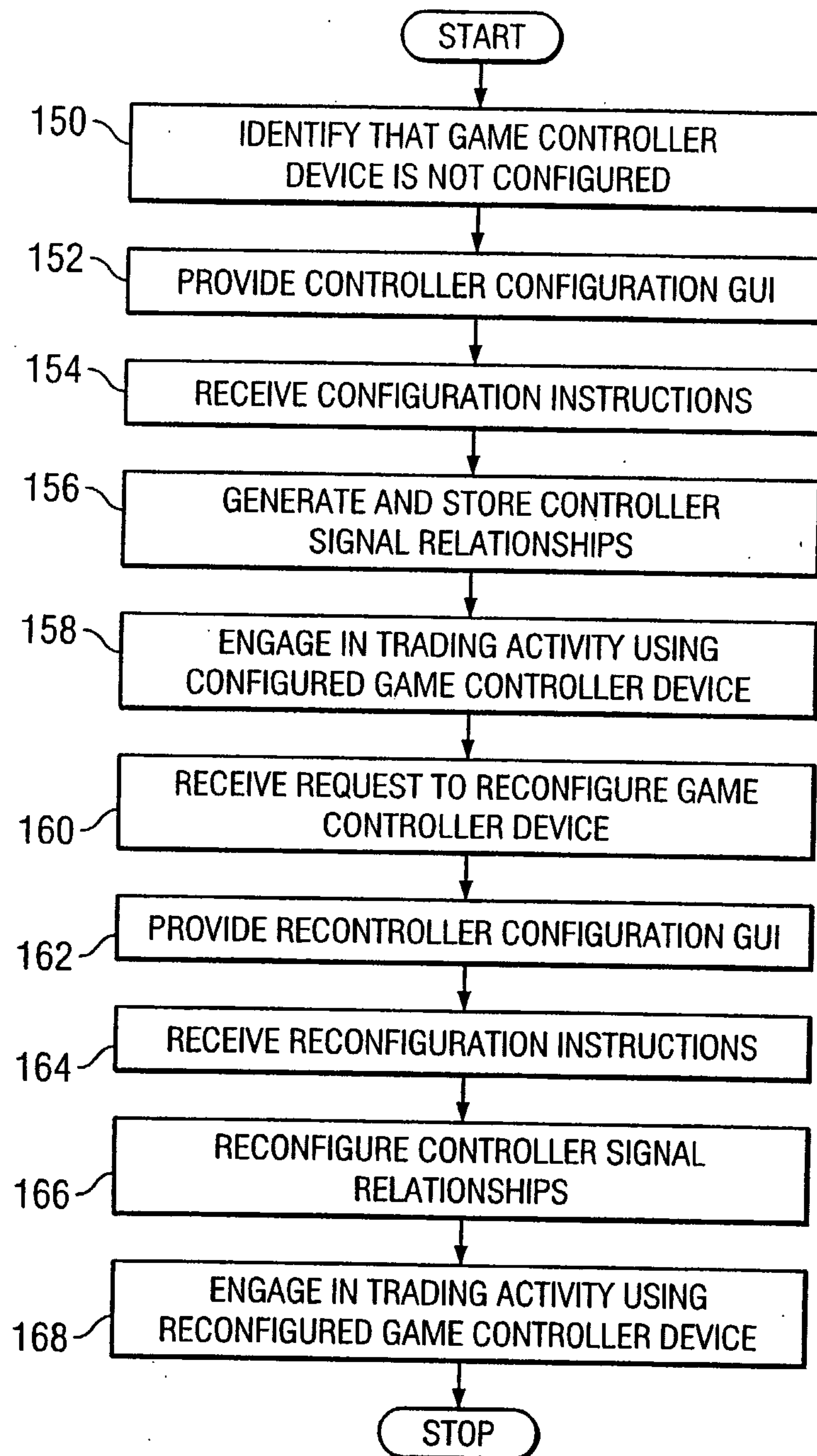


FIG. 5

