

(19) **DANMARK**

(10) **DK/EP 2926237 T3**



Patent- og  
Varemærkestyrelsen

(12) Oversættelse af  
europæisk patentskrift

- 
- (51) Int.Cl.: **G 06 F 3/0488 (2013.01)** **G 07 F 19/00 (2006.01)** **G 09 B 21/00 (2006.01)**
- (45) Oversættelsen bekendtgjort den: **2021-09-06**
- (80) Dato for Den Europæiske Patentmyndigheds bekendtgørelse om meddelelse af patentet: **2021-08-04**
- (86) Europæisk ansøgning nr.: **13802005.2**
- (86) Europæisk indleveringsdag: **2013-11-28**
- (87) Den europæiske ansøgnings publiceringsdag: **2015-10-07**
- (86) International ansøgning nr.: **EP2013074973**
- (87) Internationalt publikationsnr.: **WO2014083108**
- (30) Prioritet: **2012-11-29 FR 1203231**
- (84) Designerede stater: **AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**
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- (54) Benævnelse: **Fremgangsmåde til styring af en distributions- eller bestillingsautomat og tilhørende distributions- og bestillingsautomat**
- (56) Fremdragne publikationer:  
**US-A1- 2005 043 954**  
**US-A1- 2006 242 331**  
**US-B1- 7 051 096**  
**"CALCULATOR FOR THE VISUALLY IMPAIRED", IBM TECHNICAL DISCLOSURE BULLETIN, INTERNATIONAL BUSINESS MACHINES CORP. (THORNWOOD), US, vol. 37, no. 1, 1 janvier 1994 (1994-01-01), page 141, XP000428723, ISSN: 0018-8689**



METHOD FOR CONTROLLING AN AUTOMATIC DISTRIBUTION OR COMMAND  
MACHINE AND ASSOCIATED AUTOMATIC DISTRIBUTION OR COMMAND MACHINE

The present invention relates to a method for controlling an automatic distribution  
or command machine. The invention also relates to an automatic distribution or command  
machine.

Automatic distribution machines allow automation and acceleration of the  
distribution of a product or of a service to a user while automatic command machines  
allow automation and acceleration of the order for a product or a service by a user. For  
example, providing transport tickets is faster with an automatic distribution machine than  
through an operator at the counter.

The service proposed by an automatic distribution or command machine having a  
graphic interface assumes that the user may access the keys of the automatic machine  
and see the result of pressing on these keys.

Visually impaired or blind users can therefore not benefit from the acceleration of  
the distribution or of the order provided by the automatic distribution or command  
machines.

Document US7051096 B1 describes a method and a system for providing global  
self-service transaction terminals or automatic teller machines, comprising a touch screen  
interface and an interface of visually impaired people.

Therefore, there exists a need for an automatic distribution or command machine  
provided with a graphic interface which is accessible both to normal users and to visually  
impaired or blind users.

For this purpose, a method for controlling an automatic distribution or command  
machine as defined in claim 1.

According to particular embodiments, the method comprises one or several of the  
features of claims 2 to 11, taken individually or according to all the technically possible  
combinations.

It is also proposed an automatic distribution or command machine as defined in  
claim 12.

Other features and advantages of the invention will become apparent upon reading  
the detailed description which follows of embodiments of the invention, only given as an  
example and with reference to the drawings which are:

- Fig. 1, a schematic view of a portion of an automatic distribution machine  
according to the invention, the graphic interface being in the first control mode,  
and

- Fig. 2, a schematic view of a portion of the automatic distribution machine of Fig. 1, the graphic interface being in the second control mode.

The automatic distribution machine 10 illustrated in Figs. 1 and 2 is for example an automatic bank note dispenser of a bank agency.

5 The automatic machine 10 thus distributes a service in a public space.

Alternatively, the automatic distribution machine 10 is able to be used for selling tickets or transportation tickets.

10 According to another alternative, the automatic machine 10 is an automatic command machine for example allowing a service to be ordered (notably a menu) in a restaurant.

The automatic machine 10 comprises a graphic interface 12, a screen 14 able to display the current window of the graphic interface 12, a means 16 for producing sound elements, four auxiliary command means as four keys 18, 20, 22 and 24 and two markings 26 and 28.

15 In computer science, a graphic interface like the graphic interface 12 comprises graphic elements which allow a user to converse with the automatic machine 10 and control it so that the latter carries out the desired actions.

A graphic element is usually illustrated by one of the following objects:

- simple display elements notably comprising the following objects:
  - 20     ○ a label,
  - an icon,
- the buttons notably comprising the following objects:
  - a push button (also called « button »),
  - a check box,
  - 25     ○ a radio button,
- the menus notably comprising the following objects:
  - a command menu,
  - a circular menu (also called « pie menu »),
- the containers notably comprising the following objects:
  - 30     ○ forms,
  - frame,
  - tab,
  - toolbar,
  - scrollbar,
- the lists notably comprising the following objects:
  - 35     ○ a single choice list,

- a multiple choice list,
- the user help fields notably comprising the following objects:
  - a text area (also called « text box » or « edit field »),
  - a password area (also called « password field »),
  - 5      ○ a digital selection area (also called « spin box »),
  - a cursor (also called « slider »),
  - a progress bar,
- the windows notably comprising the following objects:
  - a simple window,
  - 10      ○ a modal window,
  - a dialog box,
  - a floating window (also called « utility window »),
- hypertext links.

Alternatively, the graphic elements consist of several simpler graphic elements like  
 15 in the case of a calendar or a combined box also called « combobox ».

For the sake of simplicity, in the following, the examples of a graphic interface 12  
 are limited to push buttons.

In computer science, a graphic interface 12 (often designated by the acronym of  
 GUI for graphical user interface) is a set of man-machine dialog windows allowing the  
 20 user to control the automatic machine 10 so that the automatic machine 10 carries out the  
 actions desired by the user.

The graphic interface 12 is able to operate according to a first control mode M1  
 (case of Fig. 1) and a second control mode M2 with emission of sound elements (case of  
 Fig. 2).

25 Each window of the graphic interface 12 includes display elements and at least  
 two selectable graphic elements. In the following, the selectable graphic elements are  
 simply designated as graphic elements.

The selection of a graphic element allows activation of a functionality of the  
 automatic machine 10 associated with the graphic element.

30 According to the example of Fig. 1, the current window comprises five graphic  
 elements 30, 32, 34, 36 and 38, the selection of which allows activation of a functionality,  
 and a display element 40.

Each graphic element 30, 32, 34, 36 and 38 appears as a rectangle with a sum in  
 euros written therein. The written sum is 20 euros for the first graphic element 30, 40  
 35 euros for the second graphic element 32, 60 euros for the third graphic element 34, 80  
 euros for the fourth graphic element 36 and 100 euros for the fifth graphic element 38.

By selecting a graphic element 30, 32, 34, 36, 38 the user may ask the automatic machine 10 for the indicated sum in euros in bank notes via the graphic element 30, 32, 34, 36, 38.

The non-selectable element 40 displays an instruction for the user on the screen 14: "Please select the desired amount".

The screen 14 is a touch screen 14.

The screen 14 has a shape of a rectangle delimited by four edges: an upper edge 42, a lower edge 44 and two side edges 46, 48. The left side edge 46 is the side edge which is on the left of the user looking at the screen 14 and the right side edge 48 is the side edge which is found on the right of the user looking at the screen 14.

The automatic distribution machine 10 comprises five means 50, 52, 54, 56, 58 for selecting graphic elements 30, 32, 34, 36, 38.

Each selection means 50, 52, 54, 56, 58 is respectively associated with a different graphic element 30, 32, 34, 36, 38: the first means 50 for selecting the first graphic element 30, the second means 52 for selecting the second graphic element 32, the third means 54 for selecting the third graphic element 34, the fourth means 56 for selecting the fourth graphic element 36 and the fifth means 58 for selecting the fifth graphic element 38.

According to the example of Fig. 1, each selection means 50, 52, 54, 56, 58 is an area of the touch screen 14 materialized by a circle. By pressing the area delimited by the circle it is possible to select the associated graphic element 30, 32, 34, 36, 38.

Alternatively, the selection means 50, 52, 54, 56, 58 are scrolling fun wheels (often designated as « scroller »).

According to another alternative, the selection means 50, 52, 54, 56, 58 are buttons.

According to the example of Fig. 1, the means 16 for producing sound elements comprises a voice synthesis unit 60 and a loudspeaker 62.

The four keys 18, 20, 22, 24 are distinct from the selection means 50, 52, 54, 56, 58.

According to the example of Fig. 2, the keys 18, 20, 22, 24 are areas of the touch screen 14.

According to an alternative, the keys 18, 20, 22, 24 are buttons.

The first key 18 appears as a touch area in which is illustrated an arrow oriented towards the left side edge 46. The first key 18 is only present in the second mode M2.

The second key 20 appears as a touch area in which is illustrated an arrow oriented towards the right side edge 48. The second key 20 is only present in the second mode M2.

The third key 22 appears on the graphic interface 12 as a touch area in which is illustrated a distinctive sign for visually impaired persons. For example, the distinctive sign is a logo with contrasted colors facilitating its examination. The third key 22 is present in both modes M1 and M2.

The fourth key 24 appears on the graphic interface 12 as a touch area in which is illustrated a loudspeaker. The fourth key 24 is only present in the second mode M2.

The four keys 18, 20, 22, 24 are organized according to a navigation banner 59.

The navigation banner 59 is placed adjacent to the lower edge 44 of the screen 14. Thus, the four keys 18, 20, 22, 24 are placed side by side adjacent to the lower edge 44 of the screen 14.

The second key 20 is both placed adjacent to the lower edge 44 of the screen 14 and to the right side edge 48.

The first key 18 is placed adjacent to the second key 20.

The third key 22 is both placed side by side with the lower edge 44 of the screen 14 and with the left side edge 46.

This localization of the keys 18, 20, 22, 24 allows the user to localize the keys 18, 20, 22, 24 by following the edges of the screen 14 with his/her hands.

Both markings 26, 28 are in the form of a sticker.

The first marking 26 is a sticker in Braille explaining the general principle of the second control mode M2.

The second marking 28 is a sticker with touch marks providing assistance to the user for localizing the keys 18, 20, 22, 24.

The automatic machine 10 also includes a controller adapted for applying a method for controlling the automatic distribution machine 10.

The functionalities associated with the four keys 18, 20, 22, 24 are now described.

In the example shown, each key 18, 20, 22, 24 has two functionalities depending on the pressure duration on the key.

For a pressure duration of less than a predetermined threshold, a first functionality is associated with the pressing on the key 18, 20, 22, 24. Such pressing will be described as a « short press » in the following of the description.

For a pressure duration above a predetermined threshold, a second functionality is associated with the pressing on the key 18, 20, 22, 24. Such pressing will be described as « prolonged pressing » in the following of the description.

A short press on the first key 18 allows selection of the graphic element 30, 32, 34, 36, 38 which follows, according to the scrolling order, the selected graphic element 30, 32,

34, 36, 38. For example, if the third graphic element 34 is selected, with a short press on the first key 18 it is possible to select the fourth graphic element 36.

In the example shown, the set of graphic elements 30, 32, 34, 36, 38 is cyclic. This means that upon shortly pressing on the first key 18 while the selected graphic element is the fifth graphic element 38, the selected graphic element becomes the first graphic element 30.

A short press on the second key 20 allows selection of the graphic element 30, 32, 34, 36, 38 which precedes according to the scrolling order, the graphic element 30, 32, 34, 36, 38. For example, if the third graphic element 34 is selected, shortly pressing on the second key 20 allows selection of the second graphic element 32.

In the example shown, as the set of selectable graphic elements is cyclic, during a short press on the second key 20 while the selected graphic element is the first graphic element 30, the selected graphic element becomes the fifth graphic element 38.

Prolonged pressing on the first key 18 allows direct selection of the first graphic element 30.

Prolonged pressing on the second key 20 allows direct selection of the last graphic element, i.e. the fifth graphic element 38.

Shortly pressing on the third key 22 allows validation of the selection of a graphic element 30, 32, 34, 36, 38.

Prolonged pressing on the third key 22 gives the possibility of passing from the first control mode M1 to the second control mode M2.

A short press on the fourth key 24 allows repetition of an emitted sound.

Prolonged pressing on the fourth key 24 allows activation of computer tools modifying the appearance of the graphic interface 12 in order to facilitate the viewing of the graphic interface 12.

For example, the graphic interface 12 is displayed in an enlarged way (magnifying glass effect). As an illustration, the character font is increased by a factor 2 or 3. Preferably, the enlargement factor as well as the area of the graphic interface 12, on which the enlargement is applied, are configurable.

Alternatively, the contrast of the display of the graphic interface 12 on the touch screen 14 is increased. Such an increase in the contrast is for example obtained by inverting the colors or by applying a filter.

According to another alternative, in the presence of a mouse, it is the display of the pointer associated with the mouse which is modified on the touch screen 14. Notably, the size of the pointer and the contrast of the pointer relatively to the remainder of the graphic interface 12 are increased.



The operation of the automatic dispensing machine 10 is now described for selecting a request for a 40 euro bank note from the automatic machine 10.

The normal user controls the graphic interface 12 in the first control mode M1.

By seeing that the second selection means 52 is associated with the graphic element for requesting 40 euros, the user presses on the second selection means 52.

Selection of the request for 40 euros is obtained.

The operation of the automatic machine 10 for a visually impaired user is different.

The visually impaired user presses shortly on the third key 22, which allows switching to the second control mode M2.

The navigation banner 59 then appears and the user may press on the first key 18, the second key 20 and the fourth key 24.

The second mode M2 does not inhibit the first mode M1. This means that in the second mode M2, the visually impaired user is free to use the selection means 50, 52, 54, 56, 58 or the keys 18, 20, 22, 24. Notably, the user may activate a tool for facilitating his/her viewing of the graphic interface 12 by prolonged pressing on the fourth key 24.

As an illustration, in the following, we assume that the user is sufficiently disabled so as not to be able to use the first control mode M1.

In the second control mode M2, a set of sound elements (either voice or signals) is emitted.

The sound elements give the possibility of making up for the fact that the user does not see or poorly sees the screen 14.

Each sound element corresponds to the reading of a text. In this sense, a sound element is a sound instruction.

This text is relative to the contents of the graphic elements 30, 32, 34, 36, 38 of the graphic interface 12 or to data of the window which is displayed by the screen 14.

Depending on the cases, the text is static or dynamic.

A dynamic text is a text including the reading of a variable. As an example of a dynamic text, mention may be made of the text « the total price is X euros » wherein X is a variable depending on the selection of the user.

The voice synthesis unit 60 gives the possibility of transforming a text into a command of the loudspeaker 62 in order to emit an artificial speech. In the example shown, the voice synthesis tool notably gives the possibility of changing the voice of the artificial speech in order to adapt it to various accents of the users, of changing the height, the velocity and the volume of the voice in order to adapt it to ambient noise, include the reading of special characters like monetary signs or punctuations or further include phonetic text in order to take into account specific pronunciations.

Applied to the example shown, upon accessing the window of Fig. 1, a description of the window displayed on the screen 14 is automatically emitted. For example, the text « Please select the desired amount: 20 euros, 40 euros, 60 euros, 80 euros or 100 euros » is emitted.

5           Automatically, the first graphic element 30 is selected. During the selection of a graphic element for a predetermined time, a description of the contents of the graphic elements 30, 32, 34, 36, 38 is emitted. Consequently, the words « 20 euros » are emitted by the loudspeaker 62.

10           The predetermined time is selected so that navigation among the graphic elements 30, 32, 34, 36, 38 remains fluid by only emitting the descriptions of the contents of the graphic elements 30, 32, 34, 36, 38 if needed by the user.

15           Preferably, when this is relevant, as this is the case in this example since the graphic elements 30, 32, 34, 36, 38 are organized according to a single list, the sound elements may be interrupted by the user by pressing on the first key 18 or second key 20. This allows the sound elements to provide assistance to the user without bothering him/her. A restricted use of the sound elements gives the possibility of avoiding excess information.

            The user then presses on the first key 18 with short pressing so as to select the graphic element for requesting 40 euros.

20           Consequently, the words « 40 euros » are emitted by the loudspeaker 62.

            The user then presses shortly on the third key 22.

            For example, the loudspeaker 62 then emits the words « Your request has been actually recorded and is being processed ».

25           The second control mode M2 is only active during the time of the operation. Once the bank notes associated with the sum of 40 euros are recovered, the second control mode M2 is no longer active.

            Disabling of the second control mode M2 may also be applied by a time-out. After a predetermined period during which no pressing on the four keys 18, 20, 22, 24 has been detected, the second control mode M2 is disabled.

30           Thus, the automatic dispensing machine 10 is controllable both by a normal user and a visually impaired or blind user. The automatic distribution machine 10 is not discriminating versus the handicap of a user.

35           The second control mode M2 is a simplified control mode as compared with the first control mode M1 since the number of keys is less than the number of selection means and in a centralized way allows access to the whole of the graphic interface 12.

This simplification makes this control mode well adapted for a visually impaired or blind user.

Further, the arrangement of the keys 18, 20, 22, 24 allows positioning of the left thumb of the user for validating and of the right thumb for selection. This is usually better adapted for a visually impaired or blind user.

The presence of oral instructions allows the user to be aware of the contents of the graphic interface 12 without reading it.

The proposed control method is independent of the operation in a normal mode of the graphic interface 12. Notably, the complexity of the graphic interface 12 and the number of selection means 50, 52, 54, 56, 58 are not taken into account. Consequently, the control method may be applied on any type of automatic machine 10 by simply modifying the software package associated with the graphic interface 12. The selection means 50, 52, 54, 56, 58 remain unchanged.

According to an alternative, the automatic machine 10 only includes two keys instead of four keys 18, 20, 22, 24, one of the two keys being used for selecting the desired graphic element by scrolling and the other key being used for confirming validation of the selection.

Alternatively, instead of a control by means of the four keys 18, 20, 22, 24, in the second control mode M2, the control of the graphic interface 12 is ensured by means of a joystick.

According to another alternative, instead of a control by means of the four keys 18, 20, 22, 24, in the second control mode M2, the control of the graphic interface 12 is ensured by receiving voice commands emitted by the user of the automatic distribution machine 10.

This reception is applied by means of a microphone receiving the instructions from the blind user.

For scrolling the selectable graphic elements 30, 32, 34, 36, 38, the blind user uses « preceding » and « next » voice commands. For validating the selection of a graphic element 30, 32, 34, 36, 38, the blind user may use the voice command « validation ».

Thus, by means of three voice commands, the blind user is capable of using the graphic interface 12 of the automatic distribution machine 10.

Alternatively, the second mode M2 is constantly present which avoids having to switch between the first and second modes M1 and M2.

According to still another alternative, the method is an executable separate from the graphic interface 12 or a compilable library with the graphic interface 12.

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For scrolling the selectable graphic elements 30, 32, 34, 36, 38, the blind user uses « preceding » and « next » voice commands. For validating the selection of a graphic element 30, 32, 34, 36, 38, the blind user may use the voice command « validation ».

Thus, by means of three voice commands, the blind user is capable of using the graphic interface 12 of the automatic distribution machine 10.

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According to still another alternative, the method is an executable separate from the graphic interface 12 or a compilable library with the graphic interface 12.

**P a t e n t k r a v**

1. Fremgangsmåde til styring af en distributions- eller bestillingsautomat (10), hvor automaten (10) har en flerhed af funktioner og omfatter:

- 5       - en grafisk grænseflade (12), der omfatter mindst to valgbare grafiske elementer (30, 32, 34, 36, 38), hvor valget af et grafisk element aktiverer en funktionalitet i automaten (10), der er knyttet til det grafiske element,
- en flerhed af udvælgelsesmidler (50, 52, 54, 56, 58) af de mindst to valgbare grafiske elementer (30, 32, 34, 36, 38),

- 10       - en flerhed af hjælpemidler (18, 20, 22, 24) til styring af den grafiske grænseflade (12), omfattende:

      - en kommando til at scrolle udvalget af valgbare grafiske elementer (30, 32, 34, 36, 38), og

- 15       - en kommando til at validere valget af et valgbart grafisk element (30, 32, 34, 36, 38),

hvor fremgangsmåden omfatter følgende trin:

      - udsendelse af et sæt lydelementer fra automaten (10), hvor lydelementerne vedrører de valgbare grafiske elementer (30, 32, 34, 36, 38) af den grafiske grænseflade (12),

- 20       - styring af den grafiske grænseflade (12) ved hjælp af mindst én kommando af flerheden af hjælpestyringsmidler (18, 20, 22, 24) af den grafiske grænseflade (12),

hvor udsendelsen af et sæt lydelementer med automaten (10) udføres efter at have valgt et af de valgbare grafiske elementer (30, 32, 34, 36, 38) af den grafiske grænseflade (12) i en forudbestemt tid, og fremgangsmåden omfatter desuden trin med:

- 25       - valg af et valgbart grafisk element (30, 32, 34, 36, 38) ved hjælp af en valideringskommando, og

- 30       - udsendelse af lydelementer vedrørende det valgte grafiske element (30, 32, 34, 36, 38).

**2.** Fremgangsmåde ifølge krav 1, hvor den grafiske grænseflade (12) er i stand til at fungere i henhold til en første styringstilstand (M1) og en anden styringstilstand (M2) med udsendelse af lydelementer,

5 hvor fremgangsmåden i den første styringstilstand (M1) omfatter trinene:

- styring af den grafiske grænseflade (12) ved at trykke på mindst ét valgmiddel (50, 52, 54, 56, 58),

hvor fremgangsmåden i den anden styringstilstand (M2) omfatter trinene:

10 - udsendelse af et sæt lydelementer fra automaten (10), hvor lydelementerne vedrører de valgbare grafiske elementer (30, 32, 34, 36, 38) af den grafiske grænseflade (12),

- styring af den grafiske grænseflade (12) ved hjælp af mindst én kommando af flerheden af hjælpestyringsmidler (18, 20, 22, 24) i den grafiske grænseflade (12),

15 hvor overgangen fra den første styringstilstand (M1) til den anden styringstilstand (M2) udføres med et hjælpestyringsmiddel af flerheden af hjælpestyringsmidler (18, 20, 22, 24).

20 **3.** Fremgangsmåde ifølge krav 2, hvor overgangen fra den første styringstilstand (M1) til den anden styringstilstand (M2) ikke blokerer den første styringstilstand (M1).

25 **4.** Fremgangsmåde ifølge et hvilket som helst af kravene 1 til 3, hvor hjælpemidlerne til styring af den grafiske grænseflade er en flerhed af taster (18, 20, 22, 24), der omfatter en første tast (18), en anden tast (20) og en tredje tast (22), hvor den første tast (18) og den anden tast (20) er kommandoer til at scrolle valget af de valgbare grafiske elementer, og den tredje tast (22) er en kommando til validering af valget af et valgbart grafisk element (30, 32, 34, 36, 38).

**5.** Fremgangsmåde ifølge et hvilket som helst af kravene 1 til 3, hvor valideringskommandoen er en stemmekommando, der udsendes af brugeren.

**6.** Fremgangsmåde ifølge krav 4 eller 5, hvor den grafiske grænseflade (12) er i stand til at fungere i henhold til en første styringstilstand (M1) og en anden styringstilstand (M2) med udsendelse af lydelementer,

hvor fremgangsmåden i den første styringstilstand (M1) omfatter trinene:

- styring af den grafiske grænseflade (12) ved at trykke på mindst ét valgmiddel (50, 52, 54, 56, 58),

hvor fremgangsmåden i den anden styringstilstand (M2) omfatter trinene:

- udsendelse af et sæt lydelementer fra automaten (10), hvor lydelementerne vedrører de valgbare grafiske elementer (30, 32, 34, 36, 38) af den grafiske grænseflade (12),

- styring af den grafiske grænseflade (12) ved hjælp af mindst én kommando af flerheden af hjælpestyringsmidler (18, 20, 22, 24) i den grafiske grænseflade (12),

hvor overgangen fra den første styringstilstand (M1) til den anden styringstilstand (M2) udføres med et hjælpestyringsmiddel af flerheden af hjælpestyringsmidler (18, 20, 22, 24),

hvor overgangen fra den første styringstilstand (M1) til den anden styringstilstand (M2) gennemføres ved at trykke på den tredje tast (22).

**7.** Fremgangsmåde ifølge krav 4, hvor automaten (10) omfatter en skærm (14) til visning af den grafiske grænseflade (12) med en nedre kant (44), en øvre kant (42) og to sidekanter (46, 48), hvor de tre taster (18, 20, 22) er placeret side om side ved en kant af skærmen (14).

**8.** Fremgangsmåde ifølge et hvilket som helst af kravene 1 til 7, hvor automaten (10) omfatter en skærm (14) til visning af den grafiske grænseflade (12)

med en nedre kant (44), en øvre kant (42) og to sidekanter (46, 48), og hjælpestyringsmidlerne omfatter en tast (24), der gør det muligt at aktivere computerværktøjer, der ændrer udseendet af den grafiske grænseflade (12) for at lette visningen af den grafiske grænseflade (12), hvor tasten (24) er placeret ved siden af den nedre kant (44).

**9.** Fremgangsmåde ifølge et hvilket som helst af kravene 1 til 8, hvor fremgangsmåden omfatter aktivering af computerværktøjer, der ændrer udseendet af den grafiske grænseflade (12) for at lette visningen af den grafiske grænseflade (12) ved hjælp af et hjælpestyringsmiddel (24) af flerheden af hjælpestyringsmidler (18, 20, 22, 24).

**10.** Fremgangsmåde ifølge et hvilket som helst af kravene 1 til 9, hvor scrolle- og valideringskommandoerne er stemmekommandoer, der udsendes af brugeren.

**11.** Fremgangsmåde ifølge et hvilket som helst af kravene 1 til 10, hvor antallet af hjælpestyringsmidler (18, 20, 22, 24) er ubetinget mindre end antallet af udvælgelsesmidler (50, 52, 54, 56, 58).

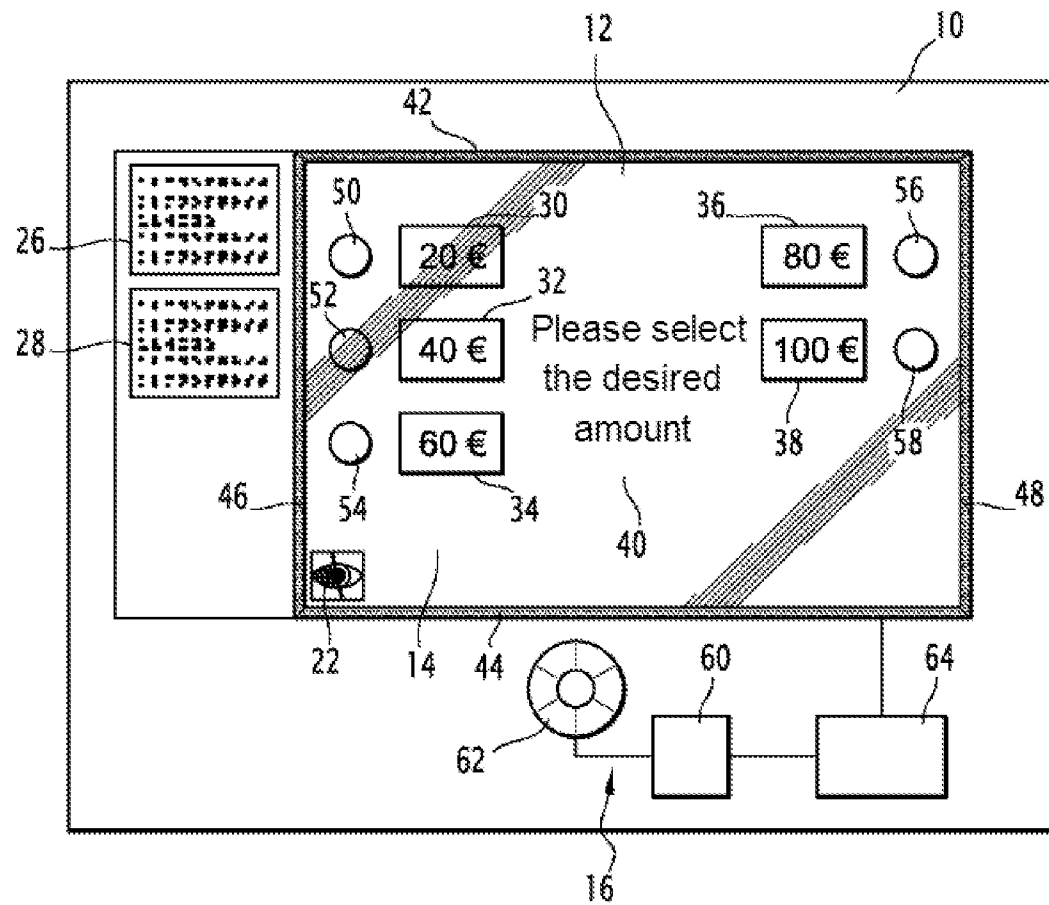
**12.** Distributions- eller bestillingsautomat (10), som har en flerhed af funktioner og omfatter:

- en grafisk grænseflade (12), der omfatter mindst to valgbare grafiske elementer (30, 32, 34, 36, 38), hvor valget af et grafisk element aktiverer en funktionalitet i automaten (10), der er knyttet til det grafiske element,
- en flerhed af udvælgelsesmidler (50, 52, 54, 56, 58) af de mindst to valgbare grafiske elementer (30, 32, 34, 36, 38),
- en flerhed af hjælpemidler (18, 20, 22, 24) til styring af den grafiske grænseflade (12), omfattende:

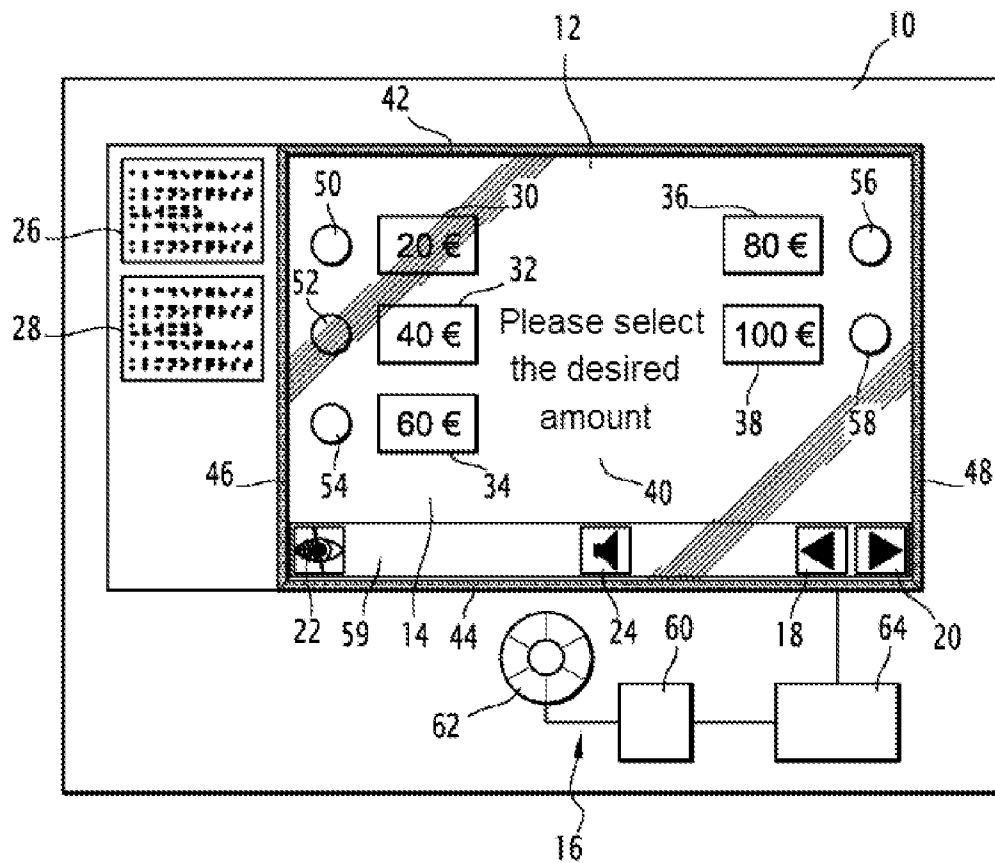


- en kommando til at scrolle udvalget af valgbare grafiske elementer (30, 32, 34, 36, 38), og
  - en kommando til at validere valget af et valgbart grafisk element (30, 32, 34, 36, 38),
- 5 - en styringsindretning (64), der er indrettet til at udføre styrefremgangsmåden ifølge et hvilket som helst af kravene 1 til 11.

1/2

FIG.1

2/2

**FIG. 2**