Jan. 8, 1946. J. MACCALLUM, JR 2,392,488

LISTING MACHINE

Filed July 20, 1944 2 Sheets-Sheet 1

Fig. 1.

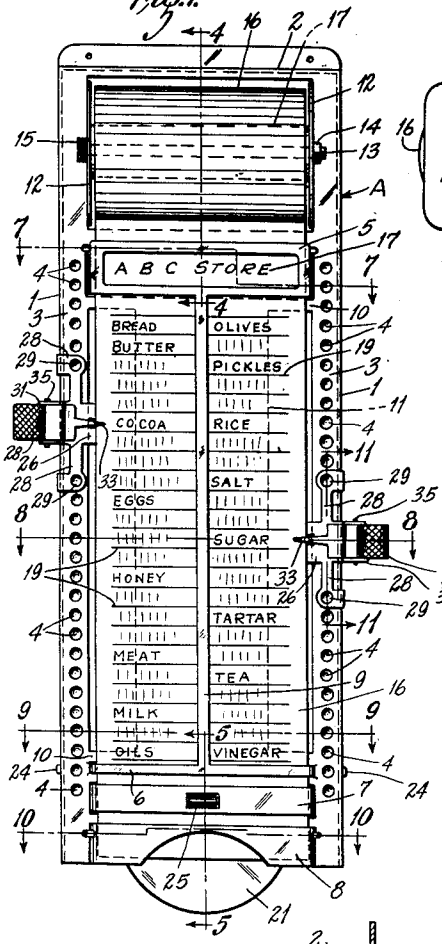


Fig. 2.

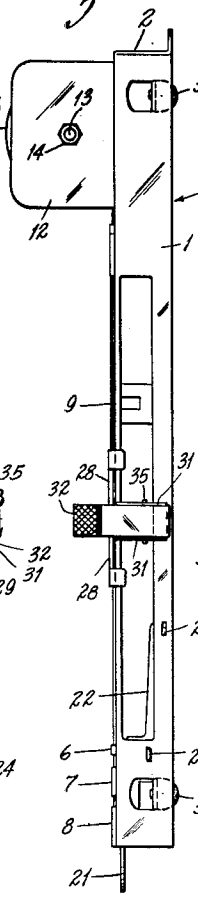


Fig. 3.

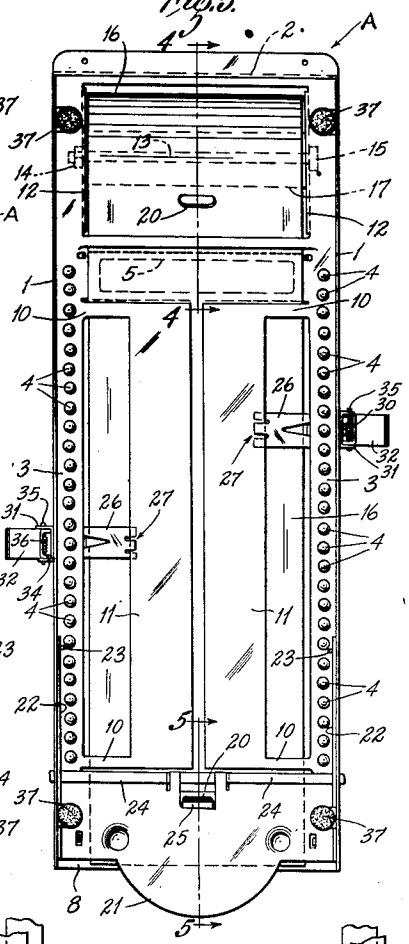


Fig. 4.

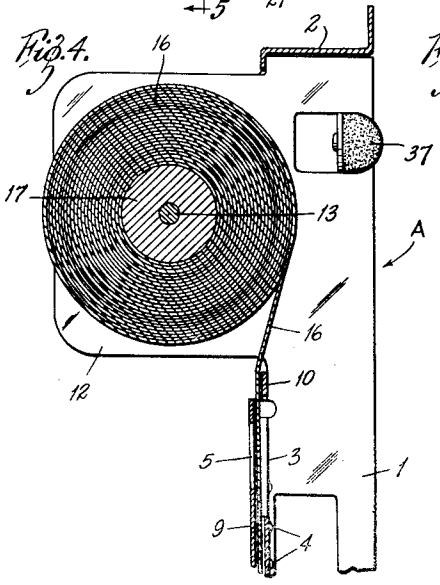


Fig. 5.

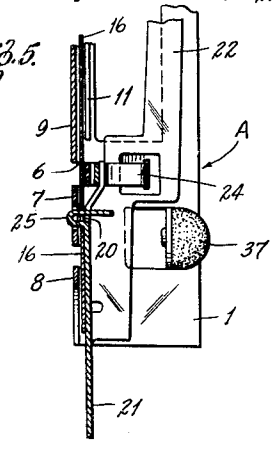
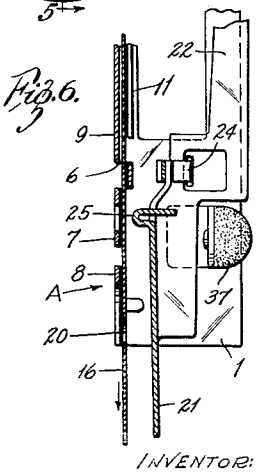


Fig. 6.



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Jan. 8, 1946. J. MACCALLUM, JR 2,392,488

LISTING MACHINE

Filed July 20, 1944 2 Sheets-Sheet 2

Fig. 7.

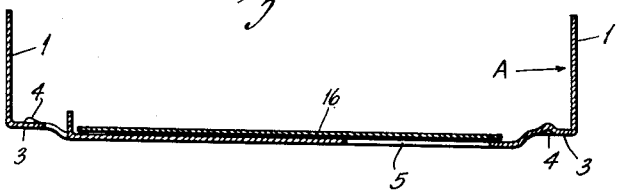


Fig. 8.

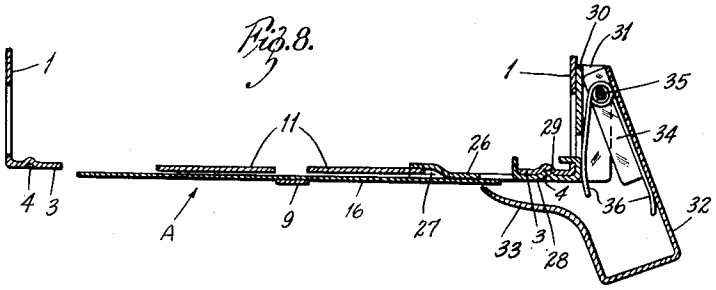


Fig. 9.

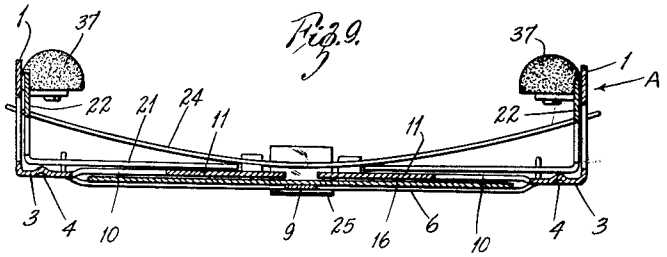


Fig. 10.

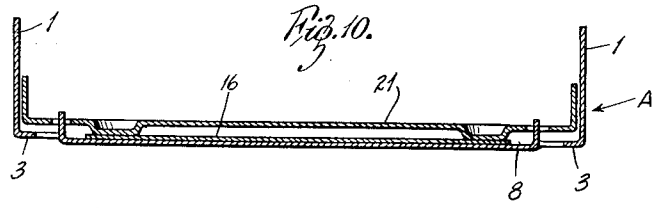


Fig. 11.

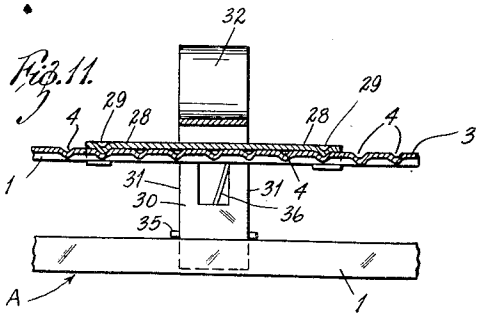
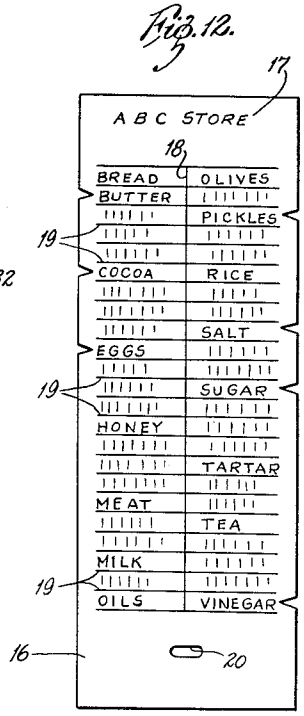


Fig. 12.



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UNITED STATES PATENT OFFICE

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LISTING MACHINE

James Maccallum, Jr., St. Louis, Mo.

Application July 20, 1944, Serial No. 545,881

6 Claims. (Cl. 164—111)

This invention relates to listing machines.

An object of the invention is to provide a machine whereby a sheet, having tabulated legends thereon, may be fed from a roll, brought into and held in an operative adjustment, and selectively punched or perforated to indicate selected items on the list, thereby providing a record list removable as a unit from the machine.

A particular object of the invention is to provide a machine of the class described, whereby the operator may selectively indicate items carried by the list thereby providing a convenient shopping list, in which the items specifically indicated may be compiled as the necessity for them arises; and when the final list is prepared, the list removed and separated from the feed roll.

Another object of the invention is to provide a device of the class described that is simple in construction, economical in manufacture and which may be conveniently operated.

Additional objects will appear from the following detailed description taken in conjunction with the accompanying drawings, in which:

Fig. 1 is a plan view;

Fig. 2 is an edge view;

Fig. 3 is a bottom plan view;

Fig. 4 is a sectional view on the line 4—4 of Fig. 1;

Fig. 5 is a sectional view on the line 5—5 of Fig. 1; or on the line 5—5 of Fig. 2;

Fig. 6 is a sectional view taken substantially on the line 5—5 of Fig. 3 with the paper releasing device depressed;

Fig. 7 is a sectional view on the line 7—7 of Fig. 1;

Fig. 8 is a sectional view on the line 8—8 of Fig. 1;

Fig. 9 is a sectional view on the line 9—9 of Fig. 1;

Fig. 10 is a sectional view on the line 10—10 of Fig. 1;

Fig. 11 is a sectional view on the line 11—11 of Fig. 1; and,

Fig. 12 is a plan view of the sheet removed with selected items indicated thereon.

In the embodiment of the invention illustrated in the drawings, the machine is shown comprising a frame A having downwardly turned side flanges 1, and a top flange 2. The base of the frame includes side rails 3, having a series of semispherical indentations 4 symmetrically spaced in the top wall thereof. An open frame 5 extends laterally between the rails 3. This frame provides a window for legends on the paper sheet used with the device. The rails 3, at the forward end of the frame, are connected by cross members 6, 7 and 8. A center strip 9 extends between the forward edge of the frame 5 and the cross member 6.

A pair of symmetrically spaced U-shaped members having lateral arms 10 and a central arm 11 are connected respectively to the under face of the side rails 3. These members form a support or table for the paper sheet fed through the machine.

At the upper part of the frame, and connected to the extensions of the rails 3, are vertical brackets 12 having a shaft 13 supported therein, said shaft being provided with a threaded end to receive a nut 14, and the opposite end of the shaft, being provided with a knurled head 15 by which the paper roll 16 carried by a cylindrical core 17 may be manipulated.

The paper roll comprises a series of sheets connected together in a continuous strip. An example of an individual sheet 16 is illustrated in Fig. 12, from which it will be observed that at the head of the sheet is a legend 17, which when a separate sheet is in position, registers with the window 5.

The sheet is divided by a vertical line 18 and a series of transverse lines 19, to provide two columns of symmetrically spaced areas in which may be imprinted a list of items, for example, items suitable for designating household supplies.

The paper sheet is threaded through transverse space below the opening in the frame 5 and carried forward between the members 10 and 11, and the members 6 and 9. These members constitute guides for a separate sheet from the roll 16 and hold it in adjusted position to receive the selective punch marks. The forward end of the strip passes under the members 7 and 8.

The member 7 has a central opening therein, and the individual sheets each has a perforation 20 in its forward section that registers with the opening in the member 7.

Below the frame is a plate 21 carrying arms 22 that are pivoted to the side rails 3 of the frame at 23. The plate is spring-pressed to raised position by a U-shaped spring 24, and said plate 21 carries on its upper face an upward projection 25 that is adapted to extend through perforation 20 in the sheet, and upwardly into the opening in the member 7. This arrangement permits, by depressing the plate 21, the forward feed of the sheet until the opening 20 registers with the opening in the plate 7 and the projection 25 on the plate 21, when released, seats in the opening, and holds the sheet in adjustment against displacement during the operation of the device.

The means for indicating the selected articles

contained on the list carried by the separate sheets comprise perforating members carried at each side of the frame. Each perforating member comprises a bracket that includes a horizontal arm 26 slotted at 27 to fit over and guide against the outer side edge of its complementary member 11. The bracket carries side arms 28 that ride over the depressions in the rails 3, and have concave depressions 29 therein that seat in the depressions in the side rail, and thereby hold the bracket releasably in selected position along the respective rail 3. The bracket also includes a depending plate 30 that extends parallel with the side of the frame, with the forward projecting flanges 31 forming a support for the perforating member. The perforating member includes the bracket 32 having an extending finger 33. The finger 33 extends over the outer edge of the paper sheet when the device is in operative adjustment.

The bracket 32 has flanges 34 that fit within the flanges 31 of the bracket member, and are pivoted thereto on a pivot rod 35. A coil spring 36 with extending ends tends to move the plate 32 to outward adjustment, raising the finger 33 above the sheet 16. By manipulating the pivoted plate 32, the finger 33 is depressed, thereby notching the sheet at the edge in lateral alignment with selected spaces on the paper sheet. Thus, by this manipulation of the adjustable perforating device longitudinally on the side frame, into proper alignment with the selected spaces, and then depressing the perforator, the selected items appearing on the sheet can be identified by the side perforations.

The base is provided with feet 37 whereby the device may be supported for convenient manipulation.

It is obvious that with a device of this character, either the completed list may be made up at one time or, in making up a household shopping list the operator may operate the device when the occasion arises to indicate on the list an item for future purchase. When the list is completed, it may be released and withdrawn from the machine, and torn from the roll, and another sheet brought into operative position.

Obviously, the device is not limited to this particular purpose of completing a marketing list, but may be used with properly legended sheets for preparing a list of any character.

The invention does not reside in the details of construction, but embraces the subject matter hereinafter claimed.

What I claim and desire to secure by Letters Patent is:

1. In a listing machine, the combination with a base forming a rectangular table, a paper roll divided into sheets dimensioned to separately be positioned on said table, said separate sheets being provided with symmetrically arranged spaces, of a punching device including a cutting member extending over the edge of said sheet, means for normally holding said punching device out of contact with said sheet, manipulating means for operating said punching device to form indicating cut-outs in selected spaces on said sheet, and means for supporting and holding said punching device at selected longitudinal positions in respect of the side edge of said table.

2. In a listing machine, the combination with a base forming a rectangular support, a paper roll comprising separable sheets, each sheet being provided with parallel rows of symmetrically spaced indicia, the separate sheets being adapted to be supported in position on said support, a pair of cut-out devices on opposite sides of said support, means for adjusting said cut-out devices selectively in alignment with the symmetrically spaced indicia carried by said sheet, means for manipulating said cut-out devices to selectively form perforations adjacent to said symmetrically spaced indicia, and releasable means for positioning said sheets on said support.

3. In a listing machine, a frame having a supporting table, means for positioning a sheet on said supporting table in operative relationship to the table, adjustable brackets arranged to be positioned in selective positions in relation to said sheet and on the opposite sides thereof, a pivoted cut-out member carried by each of said brackets, and means for manipulating said cut-out members to selectively perforate the side edges of said sheets at predetermined points longitudinally thereof.

4. In a listing machine, a frame having a supporting table, means for positioning a sheet on said supporting table in operative relationship to the table, adjustable brackets arranged to be positioned in selective positions in relation to said sheet and on the opposite sides thereof, a pivoted cut-out member carried by each of said brackets, and means for manipulating said cut-out members to selectively perforate the side edges of said sheets at predetermined points longitudinally thereof, a device for holding said sheet in predetermined position in respect of said support, and means for releasing said device to permit the sheet to be withdrawn from said support.

5. In a machine of the class described, a frame having a rectangular opening therein, means arranged in connection with said opening for supporting and guiding a rectangular sheet of paper, said sheet of paper being arranged with parallel columns of symmetrically spaced indicia, side rails formed in connection with said frame, movable brackets mounted on said side rails longitudinally in respect of the side edges of the sheet supported in said frame, frictional means for holding said brackets at selected longitudinal points in relation to the frame and thereby in relation to the sheet supported in said frame, pivoted cutting members supported in said brackets provided with cutter fingers extending over the edge of the sheet supported in said frame at each side thereof, normally out of contact with said sheet, and means for operating said cutter members to form perforations in said sheet at selected points of alignment with the indicia carried by said sheet.

6. In a listing machine, including a sheet supporting table, and means for positioning a sheet on said table, an indicating device, means normally positioning said indicating device out of contact with said sheet, manipulative means for operating said device to indicate selected spaces on said sheet, and means constituting a guide for selectively positioning said means to mark predetermined spaces.

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