

Sept. 27, 1949.

S. JOSEPH
MACHINE FOR COUNTING AND BOTTLING
PELLETS AND THE LIKE

2,483,207

Filed June 29, 1945

3 Sheets-Sheet 1

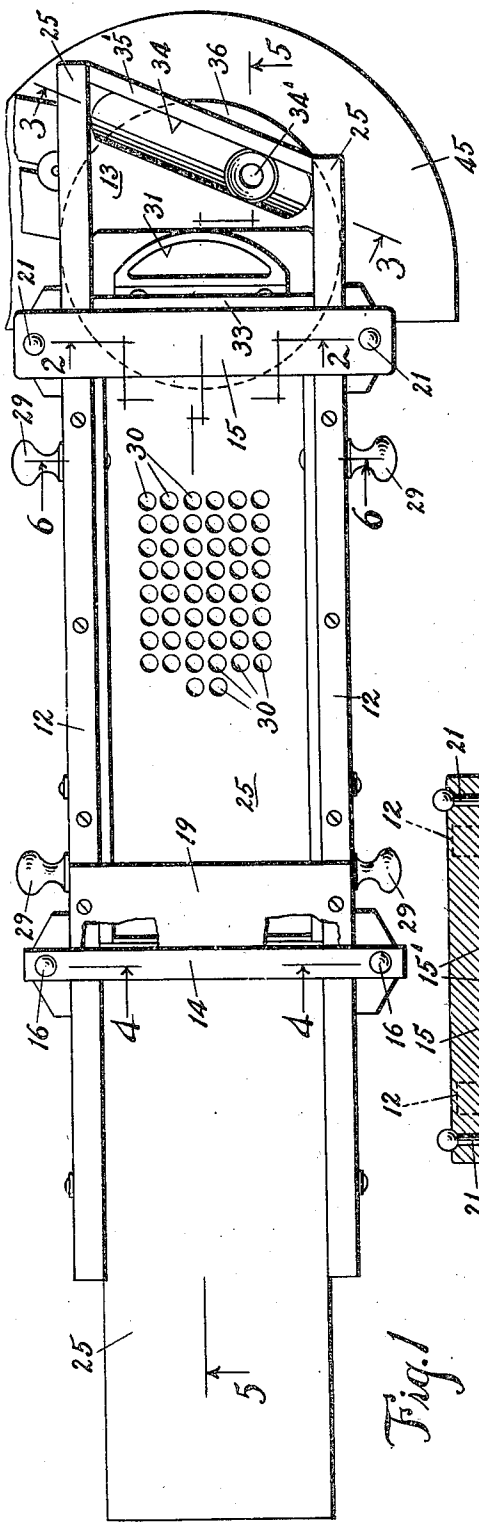


Fig. 1

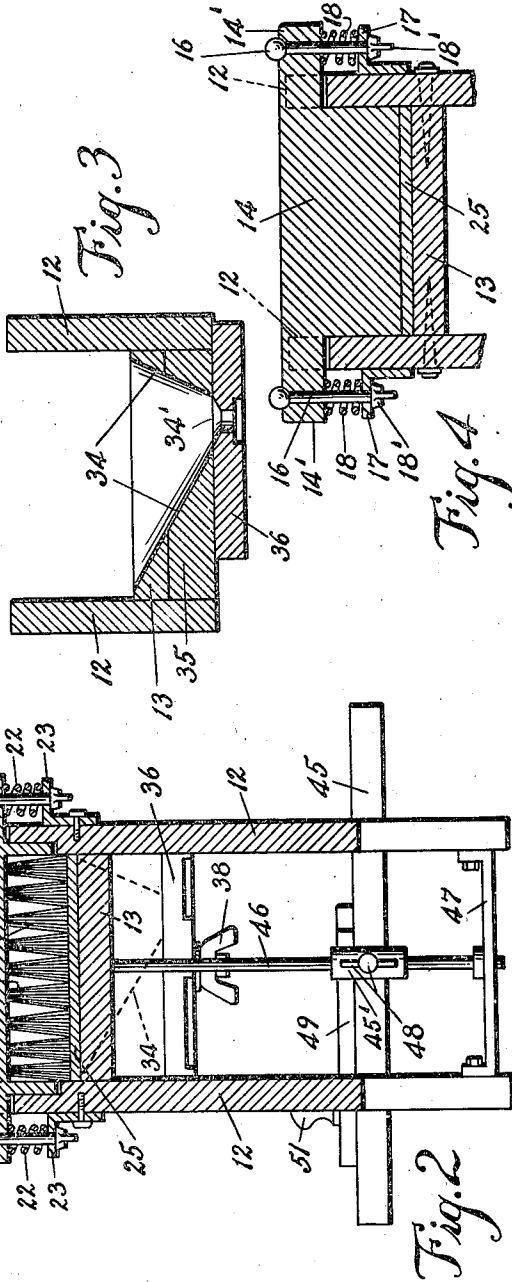


Fig. 2

Fig. 3

Fig. 4

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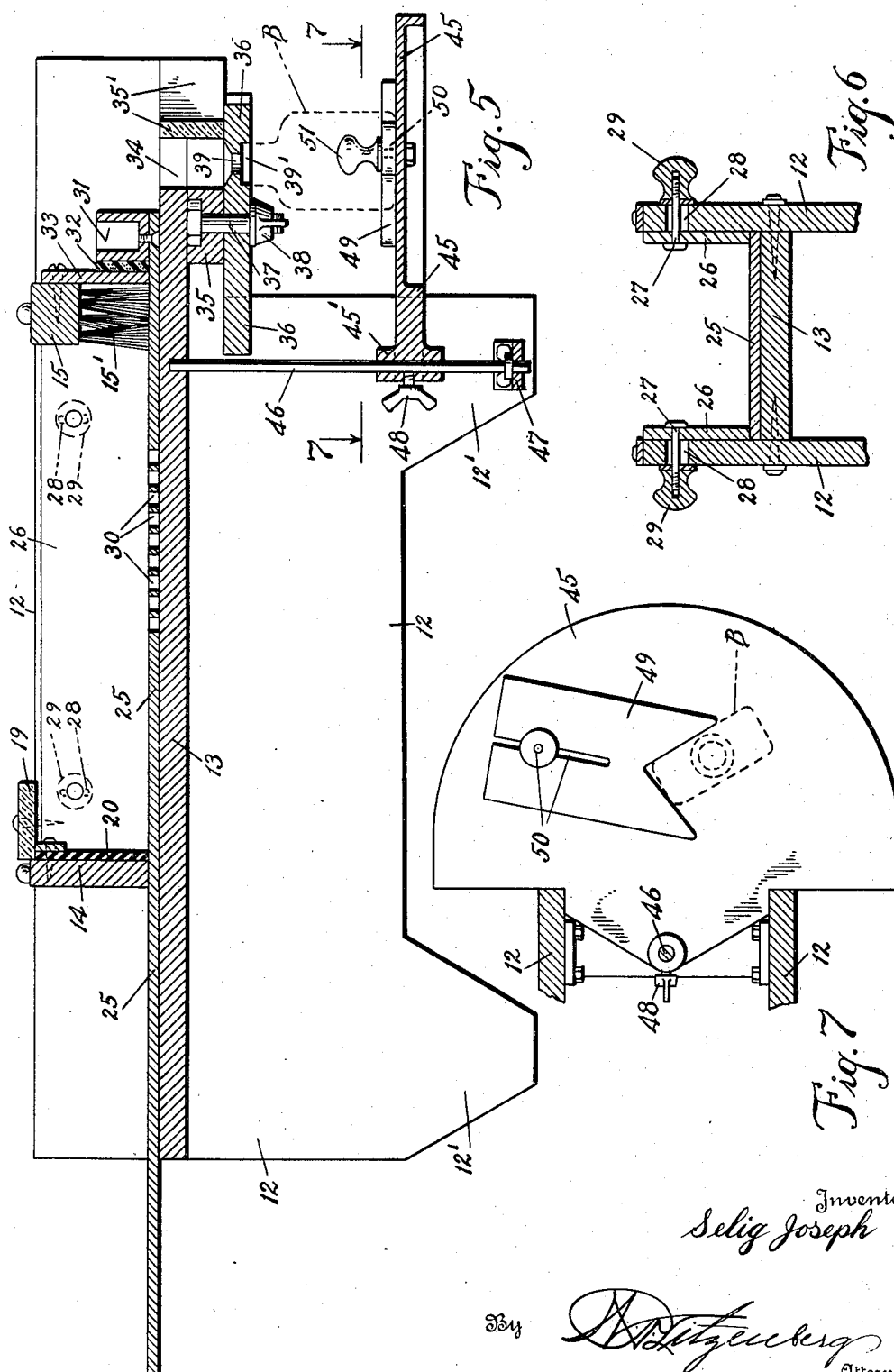
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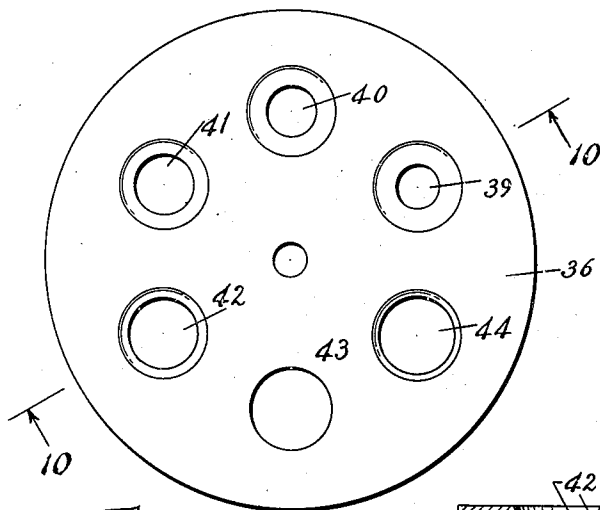


Fig. 8

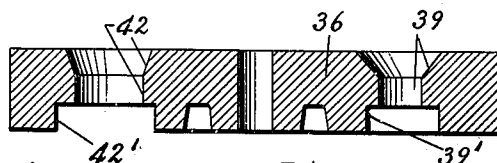


Fig. 10

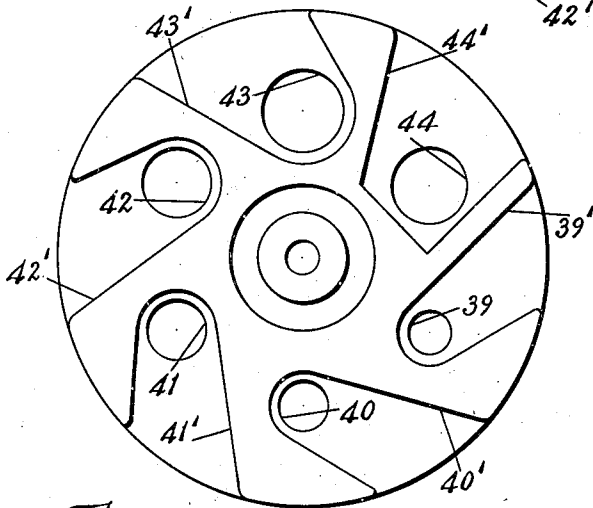


Fig. 9

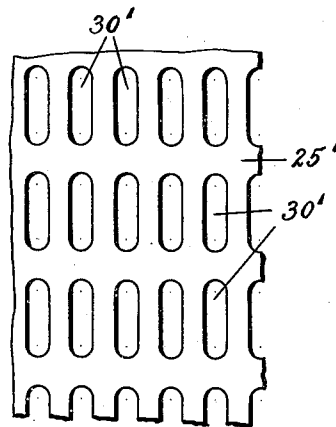


Fig. 11

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MACHINE FOR COUNTING AND BOTTLING
PELLETS AND THE LIKESelig Joseph, Los Angeles, Calif., assignor to
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3 Claims. (Cl. 226—2)

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This invention relates to machines for counting and bottling pellets and the like, and more particularly to a machine designed to receive a quantity of pills, tablets, capsules or other pellets which are to be counted and put into bottles, boxes or other receptacles by count or number, and which is designed to accomplish this function speedily, accurately and with a minimum of manual operation or manipulation.

Among the salient objects of my invention are: to provide a machine of the character referred to into which a bottle, box or other receptacle can be quickly placed and positioned to receive the pellets as the machine is manipulated to discharge them; to provide in such a machine a member adjustable according to the size of the bottle or receptacle so that any size of bottle, box or other receptacle can be used therein by the simple adjustment of a positioning member; to provide in such a machine a shuttle-like feed member, provided with a predetermined number of receiving holes or recesses for individual pellets, according to the size of the pellets to be handled therein, whereby said pellets are automatically deposited in said holes or recesses as said feed member is moved back and forth from receiving to discharging positions; to provide in such a machine means for protecting the pellets against crushing or other damage caused by getting into cracks, crevices or other than the holes or recesses provided to receive them; and, in general, to provide a new and improved machine of the character referred to which is practical, accurate in operation, and economical to build and to operate.

Referring now in detail to the drawings, I will describe the particular embodiment of my invention here shown for explanatory purposes. Referring to the drawings

Figure 1 is a top plan view looking down upon a machine embodying my invention;

Figure 2 is a vertical sectional view taken on line 2—2 of Fig. 1;

Figures 3, 4 and 6 are vertical sectional views taken on the lines 3—3, 4—4 and 6—6 on Fig. 1;

Figure 5 is a longitudinal sectional view taken on line 5—5, on Fig. 1;

Figure 7 is a plan view looking down on the bottle or receptacle holder, a bottle being indicated in light broken lines;

Figure 8 is a top plan view of the adjustable feed member;

Figure 9 is a bottom plan view of the same feed member;

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Figure 10 is a sectional view through said member, taken on the line 10—10 of Fig. 8; and

Figure 11 is a fragmentary view of a modified feed member, designed for feeding capsules.

Referring now in detail to the drawings, my invention as here illustrated, includes an upright frame structure having the opposite side members 12, 12, with the feet portions 12', 12', with a floor 13 therebetween, near the top thereof, and with the cross members 14 and 15, across the top thereof, as indicated in the sectional views, thus forming a box structure to receive pellets. Cross member 14 is shown in Fig. 4, and is provided with top extensions 14', 14' and is held in place by means of a screw bolt 16, brackets 17, with springs 18, and the winged nuts 18', whereby said cross member or wall is adjustably held in place between the side members 12, 12, as clearly indicated in Fig. 4. A top plate 19 is shown in front of said cross member 14, with a cushion or pad 20 thereunder in front of said cross member 14.

The cross member 15 is a brush, and has the depending brushes 15', and is yieldingly mounted in the same manner as is the cross member 14, and has the bolts 21, springs 22 and brackets 23, as clearly shown in Fig. 2, whereby said brush guard is yieldingly and adjustably held in position.

Slidably mounted on the floor member 13, between the side members 12, 12, is a shuttle board or member for counting and discharging pellets, pills, capsules and the like. This counting and discharging member is designated 25, and is retained in sliding condition by two inner side members 26, 26, on the inner sides of the side members 12, 12, and adjustably held in position by means of screw bolts 27, extended through slots 28 in said side members 12, 12, as clearly seen in Fig. 6, and provided with knobs 29, 29. Said counting member or shuttle 25 is provided with holes 30, 30, of different sizes, as may be required, for the pellets, pills or other small matter to be counted and deposited into receptacles. In Fig. 11, I have shown how the member 25' can be provided with capsule-receiving openings 30' elongated to fit capsules.

The front end of said counting member 25 slides under the brushes 15', as seen in Figs. 1, 2 and 5, and is provided with a handle, or finger-receiving pocket member 31, with a pad or cushion 32 on its rearward side to a front cross member 33, as said counting member 25 is pushed back into the machine to receive a new supply of pellets in the pellet holes 30.

The front end of the floor 13 is extended, as seen in Figs. 1 and 5, and is provided with a

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diagonal opening 34, into which the pellets in the holes 30, in the counting member 25, are dropped as said member 25 is pulled out to bring said holes 30 over said opening 34, which opening is really an inclined hopper-like opening, as seen in the sectional view thereof in Fig. 3. This receiving opening or hopper 34 terminates in a discharge hole 34'.

Under the front end of said floor member, as extended, is a supplemental member 35, which gives extension to the hopper form 34, but also constitutes a support for a guide or placement member 36, supported by a center bolt 37, with wing-nut 38 for tightening it in adjusted positions for different sizes of bottles, or for a box, as will be better understood by reference to Figs. 8, 9 and 10. Fig. 8 is top plan view, while Fig. 9 shows the bottom plan view, with the tangential openings or ways for guiding the top of the bottle into register with the discharge hole 34', at the bottom of the hopper 34. It will be noted that the guide or placement member 36 is provided with different sizes of holes, as 39, 40, 41, 42, 43 and 44, with guide-ways 39', 40', 41', 42', 43' and 44', as indicated on the bottom plan view in Fig. 9. The hole 44 and its guide-way 44' is squared to receive a box. Each of the holes 39 to 44 are movable into register with the hopper outlet.

Adjustably supported under said guide and placement member 36, is a bottle supporting table 45, supported on a rod 46, anchored in a cross member 47 between the side members 12, 12, as seen in Fig. 2, with its upper end anchored in the bottom member 13. This table is provided with a sleeve member 45' which fits on said rod 46, and is adjustable thereon, and locked in adjusted positions by means of the winged set screw 48.

A guide member 49 is mounted on said table, and is readily and easily adjusted by means of slot and bolt connection at 50, as will be clear from Figs. 5 and 7, said bolt having a hand knob 51 thereon for turning it, and said guide member 49 having its receiving end cut V-shape, whereby a bottle B, indicated in light broken lines, can be readily moved into place without any effort or special skill. This member 49 can be adjusted to receive and position bottles, or receptacles of different sizes and kinds, and to place them so that their mouths will register with the discharge opening at 34' from the hopper 34.

The front cross member 35' is indicated as of glass, as is the top plate 19, in front of the cross member 14, Fig. 5.

The number of holes 30 in the counting member 25 is shown as fifty, which makes it convenient to discharge fifty pellets at a time and thus easy to count the number of pellets discharged. This can be arranged in any desired number, and different members will be provided with different sizes of counting and feeding holes or openings, according to the size of the pellets to be handled in the machine.

I am aware that changes in details of construction and arrangement can be made in the machine as here shown for explanatory purposes without departing from the spirit of the inven-

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tion, and I do not, therefore, limit the invention to the showing made for this purpose, except as I may be limited by the hereto appended claims. I claim:

1. In a machine for counting pellets and feeding them to a receptacle: a hopper, a movable guide member under said hopper and having guide ways on its underside for the tops of receptacles, and having feed holes of different sizes therethrough, at the ends of said guide ways, for different sizes of receptacles, to be moved selectively into register with said hopper, a supporting table under said guide member for receptacles and having guide means thereon for positioning the base of said receptacles, according to size, in cooperation with the guide member for the tops of said receptacles, whereby to facilitate the quick and accurate placement of receptacles to receive pellets and the like from said hopper.

2. In a machine for counting pellets and the like and feeding them to a receptacle: a hopper, a guide member revolvably mounted under said hopper and having guide ways on its underside for the tops of receptacles, and having feed holes of different sizes therethrough, at the ends of said guide ways, for different sizes of receptacles, to be moved selectively into register with said hopper, a supporting table under said guide member for receptacles and having guide means thereon for positioning the body of said receptacles, according to size, in cooperation with the guide member for the tops of said receptacles, whereby to facilitate the quick and accurate positioning of receptacles to receive pellets and the like from said hopper.

3. The combination with a machine for counting, feeding and delivering pellets and the like to receptacles, of means for holding and adjusting receptacles to receive the same, said means including a hopper, a guide member revolvably supported under said hopper and having guideways on its under side for the tops of receptacles and holes of different sizes through said guide member at the ends of said guideways to be moved into register with said hopper, a supporting table adjustably supported under said guide member and having guide means thereon for positioning a receptacle thereon, whereby both the top and bottom of a receptacle are guided and positioned quickly under said hopper to receive pellets and the like from said machine.

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