

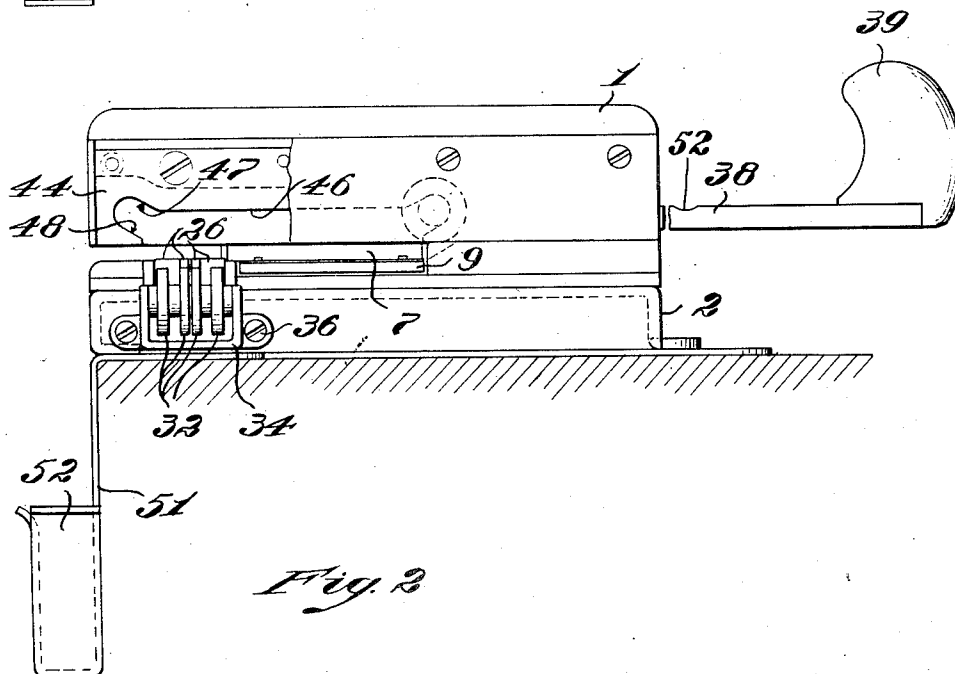
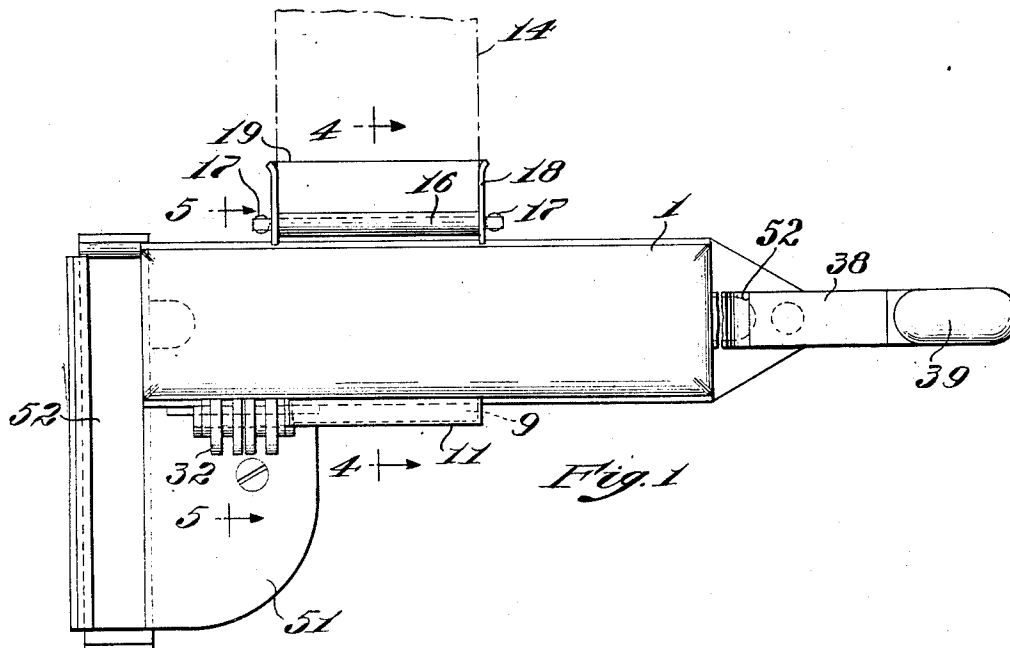
Aug. 12, 1952

L. E. VOGT
PRINTING DEVICE USING PORTABLE PRINTING
PLATES OF THE TOKEN TYPE

2,606,494

Filed Jan. 29, 1948

2 SHEETS—SHEET 1



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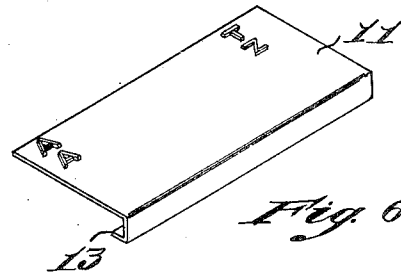
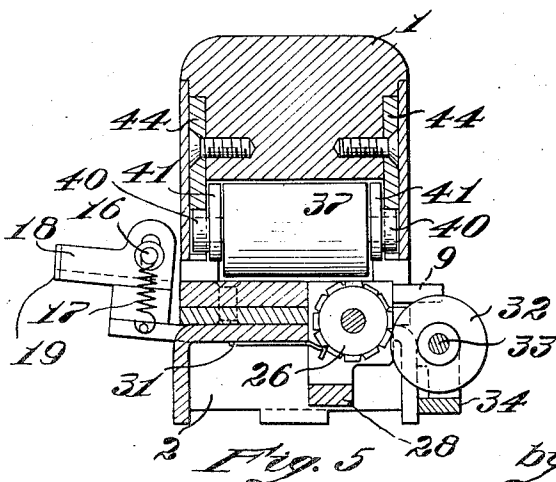
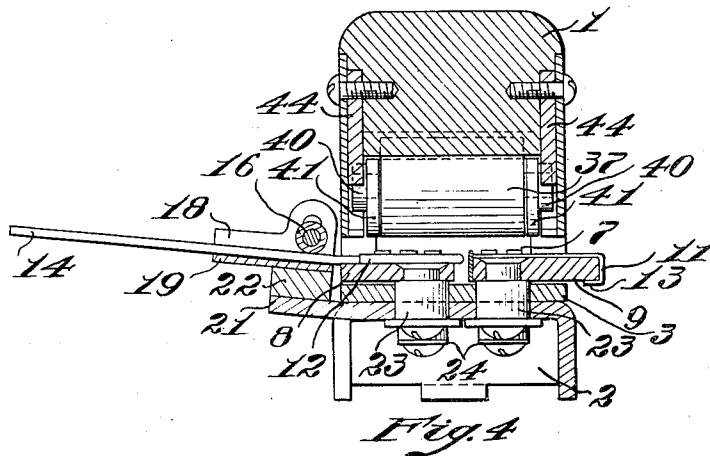
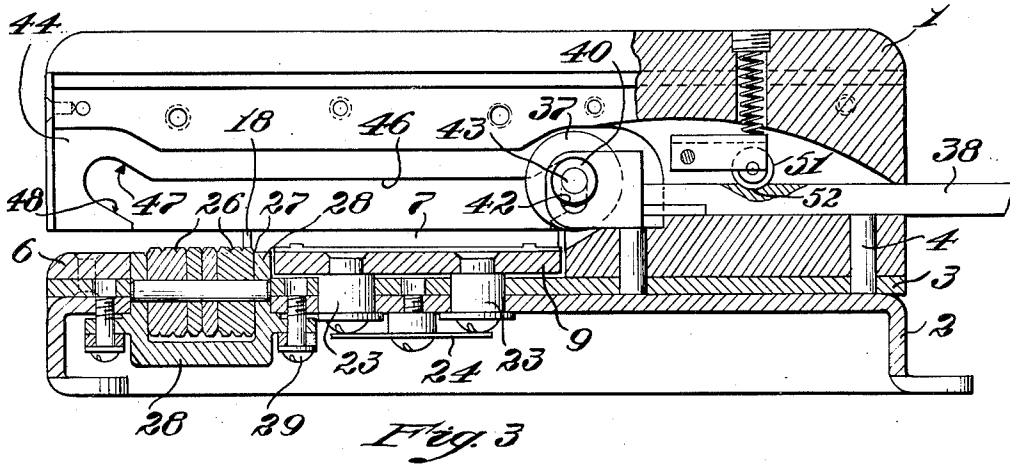
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2 SHEETS—SHEET 2



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UNITED STATES PATENT OFFICE

2,606,494

PRINTING DEVICE USING PORTABLE
PRINTING PLATES OF THE TOKEN TYPELucien E. Vogt, West Roxbury, Mass., assignor to
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Application January 29, 1948, Serial No. 5,014

1 Claim. (Cl. 101-269)

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This invention relates to printing devices of the type utilizing portable printing plates such as carried by charge customers of stores, gasoline filling stations, etc., or by members of organizations such as veterans or government employees who have occasion to identify themselves from time to time as for example when calling for social security benefits.

The objects of the invention are to provide a printing device which is simple and economical in construction, which produces uniform printing with inexpensive plates even when the plates are somewhat distorted, which is easy to operate, and which is durable and reliable in use.

In one aspect the device has a slot to receive sales slips or the like, with one or more seats for printing plates on one side of the slot, in combination with a printing roller and a cam on the other side of the slot for pressing the roller against the slips, the cam having a rise at one end to permit the roller to move away from the slips and another cam opposite the rise positively to move the roller away from the slips at the end of its printing movement, and means for moving the roller back and forth along the cams. The actuator preferably has a leg extending along each end of the roller, the legs having transverse slots for the ends of the roller to permit the cams to move the roller transversely of the actuator as the roller is moved back and forth as aforesaid. In the preferred embodiment the device is arranged to receive two printing plates and they are arranged to slide in edgewise from opposite sides of the device, preferably with means beyond the ends of the roller for holding the plates in position on their seats. The device may also comprise type wheels with means extending out of one side of the device for resetting the wheels. The cams preferably comprise detachable plates mounted on the sides of the device for cooperation with trunnions on the ends of the roller.

For the purpose of illustration a typical embodiment of the invention is shown in the accompanying drawings in which

Fig. 1 is a top plan view;

Fig. 2 is a side view;

Fig. 3 is an enlarged side view with the side plate removed and parts in section;

Fig. 4 is a section on line 4-4 of Fig. 1;

Fig. 5 is a section on line 5-5 of Fig. 1; and

Fig. 6 is an isometric view of one of the printing plates.

The particular embodiment of the invention chosen for the purpose of illustration comprises upper and lower portions 1 and 2 the former

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preferably being in the form of a casting and the latter in the form of a pressed-metal base. Intermediate the two portions is a plate 3 which is secured to the base 2 by means of screws and to the frame block 1 by means of tight-fitting pins 4. At the left end of the machine (Fig. 3) a filler piece 6 is mounted on the plate 3 by means of screws. Intermediate the block 1 and base 2 is a slot 7 to receive the sales slips or other sheets to be printed. As shown in Figs. 1 and 2 the printing device may be mounted on a sheet metal holder 51 having a pocket 52 for a book of sales slips or the like.

Mounted on the base below the slot 7 are two seats 8 and 9 for printing plates 11 and 12 which slide into the slot from opposite sides as shown in Fig. 4. The plate 11 is constructed as shown in Fig. 6 with a flange 13 which extends under the outer edge of the seat 9 to hold the plate in the printing position shown in Fig. 4. The plate 12 is mounted on the end of a card 14 as disclosed in the copending application Serial No. 781,036, filed October 21, 1947, now Patent No. 2,538,137. The plate 12 is held on its seat 8 by means of a roller 16 actuated by springs 17, the roller having trunnions extending through slots in the flanges 18 of a card tray 19 mounted on a struck-up shelf 21 of the base 2 through the medium of a block 22. Referring to Fig. 4, the plate 11 slips into the slot from the right and the plate 12 slips in from the left. The seats 8 and 9 are mounted on posts 23 extending through the base 2 and plate 3. Mounted beneath the base 2 are leaf springs 24 for urging the posts to their uppermost positions shown in Figs. 3 and 4 where their flanges seat against the bottom of the base 2.

Adjacent the seat 9 are printing wheels 26 which rotate on a shaft 27 journaled in a holder mounted in a recess in the base by means of screws 29. The printing wheels carry dates or other printing indicia on their periphery and are held in adjusted position by means of spring detents 31 (Fig. 5). To adjust the four printing wheels to different positions, four friction rolls 32 are rotatably mounted on a shaft 33 with their peripheries in frictional engagement with the peripheries of the four printing wheels respectively. The shaft 33 is journaled in a bracket 34 mounted on the side of the base 2 by means of screws 36.

For the purpose of pressing the sales slips against the printing plates and type wheels, a roller 37 is mounted to move from the position shown in Figs. 2 and 3 to a corresponding position at the other end of the slot 7. The roller

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is moved by an actuator 38 sliding lengthwise of the device and having a handle 39 at its outer end. At its inner end the actuator has two legs 41 extending along opposite ends of the roller with slots 42 (Fig. 3) to receive rollers 40 on the trunnions 43. Mounted on the sides of the block 1 are cam plates 44 having central surfaces 46, end rises 47 and surfaces 48 opposite the rises 47. At the ends of the stroke of the actuator 38 the surfaces 48 lift the roller out of the slot so that sales slips may be inserted or removed, the rises 47 permitting this lifting action. To assist in holding the actuator 38 on its seat and to detain it in each of its end positions, a spring-pressed roller 51 bears on its upper surface and drops into a recess 52 in the upper surface of the actuator at each end of its stroke. In passing from one end to the other the roller is forced down against the sales slips by the central cam surfaces 46.

By employing an ink-absorbent roller such as disclosed in application Serial No. 47,785 filed September 4, 1948, it is unnecessary to use an ink ribbon or carbon paper to make an impression on the upper surface of the upper sheet of paper. However instead of using an ink-roller a carbon sheet may be laid over the upper sales slip. By employing printing plates on which the indicia are in non-reversed order, as disclosed in Patent 1,801,593, the printing is legible when applied to the upper sides of the sheets, that is the sides opposite to the printing plates.

To effect printing it is necessary only to move the roller from one end of the slot to the other. In each end position it is lifted out of the way so that sales slips may be inserted or removed. While various types of printing plates may be employed, in the illustration the plate 11 is intended to be left in the machine indefinitely whereas the plate 12 mounted on the card 14 is intended to be carried by a charge customer.

It should be understood that the present disclosure is for the purpose of illustration only and

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that this invention includes all modifications and equivalents which fall within the scope of the appended claim.

I claim:

A device for printing sales slips comprising a housing having an open-ended slot to receive the slips, means in the housing forming a seat below the slot for a printing plate positioned therein with the type facing upwardly, means including a roller in the housing for pressing the slips against the plate, the roller having end trunnions, guide means in said housing having surfaces engaging said trunnions for guiding said roller along said slot, said surfaces comprising central portions extending along said slot for causing the roller to press the slips against the plate and end portions extending obliquely from the slot and from said central portions, said end portions having upper and lower cam surfaces for urging the roller downwardly at the beginning of each stroke and upwardly at the end of each stroke, and means for causing the roller to traverse the slot, whereby a slip may be printed during each one-way stroke of the roller.

LUCIEN E. VOGT.

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