July 28, 1925. 1,547,289

L. M. BARMAN

HOPPER OR MAGAZINE FOR STACKING STENCIL CARDS USED IN ADDRESSING MACHINES

Filed June 29, 1923

Fig. 4.

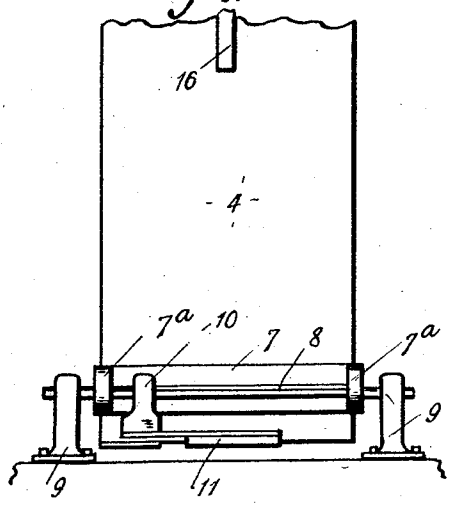


Fig. 1.

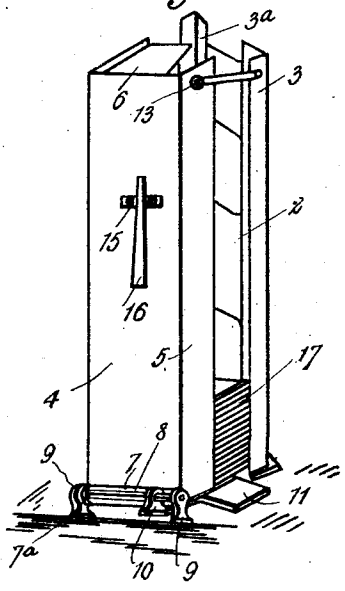
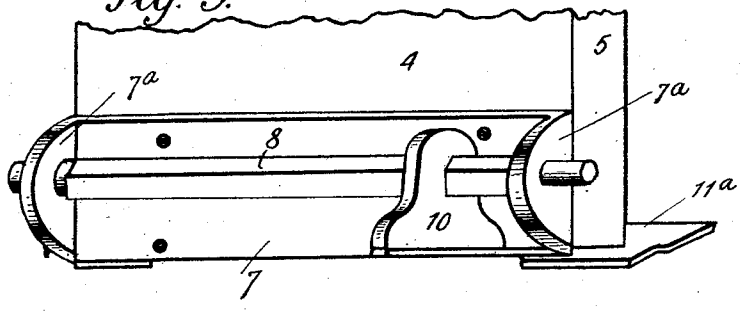


Fig. 3.



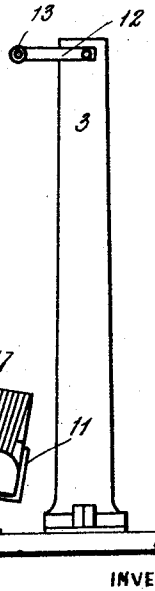
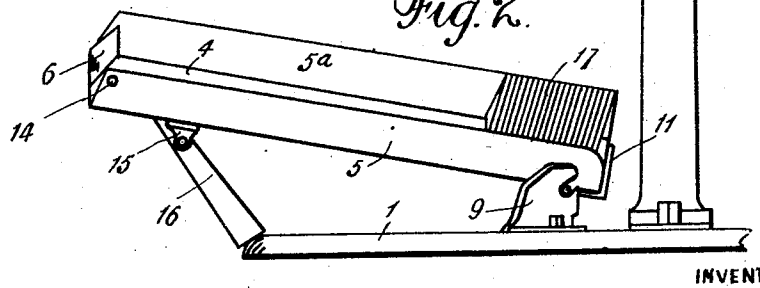


Fig. 2.



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UNITED STATES PATENT OFFICE.

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PPER OR MAGAZINE FOR STACKING STENCIL CARDS USED IN ADDRES MACHINES.

Application filed June 29, 1923. Serial No. 648,444.

To all whom it may concern:

Be it known that I, LOUIS MAURICE BARMAN, a citizen of the United States of America, residing at Roneo Building, 5 Holborn, London, E. C. 1, England, Great Britain, have invented new and useful Improvements in Hoppers or Magazines for Stacking Stencil Cards Used in Addressing Machines, of which the following is a specification.

The present invention relates to improvements in the hoppers or magazines for stacking the stencil cards used in addressing machines.

In the hoppers or magazines as at present devised provision has been made whereby the hopper or magazine is so supported from the machine that it can be tilted in an angular plane when the drawer containing the stencils is presented for removal of the stencil cards into the hopper.

In a further method one of the side walls is pivoted to the remaining walls so that it can be moved angularly therefrom to enable the stencil cards to be introduced to the magazine.

Now the object of the present invention is to construct a hopper in such a manner that one of the walls is removable so that it can be used as a support for the cards in a horizontal plane, can be introduced with its load of stencil cards to the fixed walls of the hopper in a more or less horizontal plane and can then be tilted into a vertical line with the walls of the hopper and locked in such position. In conjunction with said removable part of the hopper there is provided a base plate which when the stencils are stacked in the hopper can be moved to a position to allow the stencil cards to fall on to the slideway for withdrawal one at a time for printing.

According to the present invention, the removable portion of the hopper or magazine, which may be the back portion comprises a solid plate, two upstanding sides, a movable base plate and a fixed top. To the solid plate is secured a bar having upturned flanges which are bored out for the reception of a square bar upon which slides the movable base, the ends of the square bar being circular in section so as to form pivots whereon the removable wall of the hopper turns relative to the base of the machine. The solid plate has also secured thereto a pair of lugs which are bored out so as to support a leg, the function of which will shortly be described.

The method of locking the removable back or wall of the hopper to one of the said walls may be effected in many ways. For example one side wall may be provided with a flat spring and pin the said pin engaging a hole drilled through the corresponding wall of the removable back.

The invention will now be described by means of the accompanying drawings, whereon:—

Fig. 1 shows a perspective view of the hopper or magazine in its operative position.

Fig. 2 shows the removable portion of the hopper in its substantially horizontal position.

Fig. 3 is an enlarged detail view of a part of the removable hopper mounted in its supports.

Fig. 4 is an enlarged detail view showing the parts operating the movable base.

To the base or table 1 is secured by bolts or like means the fixed portion of the hopper or magazine. This fixed portion comprises a front 2 and two short sides 3, 3^a.

The removable portion of the hopper or magazine, which may be the back portion comprises a back plate 4, sides 5 and 5^a and a fixed top 6. To the back 4 is secured by rivets, screws or the like a bar 7 having upturned flanges 7^a which are bored out to receive a square bar 8 the ends of the square bar being circular in section to form pivots in the supports or brackets 9 secured by bolts or like means to the base or table 1. Fitted on the square bar 8 in a slidable manner is a block 10 which is secured to the movable base portion 11 of the hopper.

To one of the sides 3, 3^a is secured a flat spring 12 the free end of which is provided with a finger piece 13 and a pin which engages in a hole or perforation 14 formed in one of the sides 5, 5^a so as to lock the removable part of the hopper to the fixed portion, when the parts are in the position shown in Fig. 1.

Secured to the back 4 is a pair of lugs 15 which are bored out to receive a leg 16.

It is to be understood that the removable part of the hopper can be employed with varying types of drawers or trays for storing the stencils.

For instance, the removable part of the hopper can be lifted off the supports or brackets 9 and then be carried to the stencil card drawer and the stencils transferred thereto in batches, or similarly the removable part of the hopper can be placed in the more or less horizontal position shown in Fig. 2, and batches of stencils can be inserted in the receiving tray thus formed.

The invention, however, is designed more particularly for use with the type of stencil card drawer described, and illustrated in my former application for patent Serial No. 644,512, filed June 9, 1923, and the operation of the present invention will now be described in conjunction with a stencil card drawer of that type.

Assuming that the position of the parts is as shown in Figure 1, the operator first releases the hopper, pulling the pin out of the hole or perforation 14 by means of the finger piece 13. The removable part of the hopper is then lifted clear of the supports or brackets 9. The movable base 11 is next slid into the position to form the end of the removable member by means of the block 10 mounted on the bar 8.

The removable member comprising the back plate 4, sides 5 and 5^a, the top 6 the bar 8 and the leg portion 16 is now placed over the top of the stencil card drawer or container, of the type described in the above mentioned application, which with its load of stencils has been carried from the cabinet to the addressing machine.

The drawer with the stencils therein, and the removable part of the hopper thereon is now introduced to the fixed part of the hopper, the rounded ends of the bar 8 being fitted into the bearings of the supports or brackets 9 so that the drawer and the removable back of the hopper are in a more or less horizontal position, the leg 16 on the back 4 acting as a support.

The lock on the drawer described in the former application for patent is now released and the drawer is lifted away from the removable back so that the stencil cards 17 are now supported by the removable part of the hopper. The removable part with the stencils is now tilted upwardly into the position shown in Figure 1 and is locked to the fixed part of the hopper in the manner previously described. The stencil cards are now enclosed within the hopper, the lowermost stencil card resting upon the movable base 11.

When it is required to operate the addressing machine, movement of the base 11 allows the cards to drop on to the slideway where they are acted upon for printing envelopes in the well known manner.

Having thus described my invention what I desire to secure by Letters Patent of the United States is as follows:—

1. Hoppers or magazines for use with stencil cards for addressing machines including a fixed vertically arranged member capable of being supported by the base of a machine, and a second member removable from said fixed member and used as a support for the stencil cards and capable of being tilted from a substantially horizontal plane to a vertical plane in association with said fixed member.

2. Hoppers or magazines for use with stencil cards for addressing machines comprising a removable part of the hopper formed with a back plate, two side walls, a fixed top, and a base plate the said base plate being movably fitted to the back plate.

3. Hoppers or magazines for use with stencil cards for addressing machines including a fixed vertically arranged member capable of being supported by the base of a machine, a second member removable from said fixed member and used as a support for the stencil cards and capable of being tilted from a substantially horizontal plane to a vertical plane in association with said fixed member, and brackets on the base of the machine in which said second member is mounted for tilting movement.

4. Hoppers or magazines for use with stencil cards for addressing machines including a fixed vertically arranged member capable of being supported by the base of a machine, a second member removable from said fixed member and used as a support for the stencil cards and capable of being tilted from a substantially horizontal plane to a vertical plane in association with said fixed member, and a supporting leg carried by said second member for supporting the same in a substantially horizontal position.

5. Hoppers or magazines for use with stencil cards for addressing machines including a fixed vertically arranged member capable of being supported by the base of a machine, a second member removable from said fixed member and used as a support for the stencil cards and capable of being tilted from a substantially horizontal plane to a vertical plane in association with said fixed member, and means for locking said fixed and movable members together when the latter is in a vertical position.

In testimony whereof I have signed my name to this specification

LOUIS MAURICE BARMAN.