

Jan. 20, 1953

H. E. HOLMBERG

2,626,149

CARD FEEDBOX

Filed April 23, 1949

2 SHEETS—SHEET 1

FIG. 1.

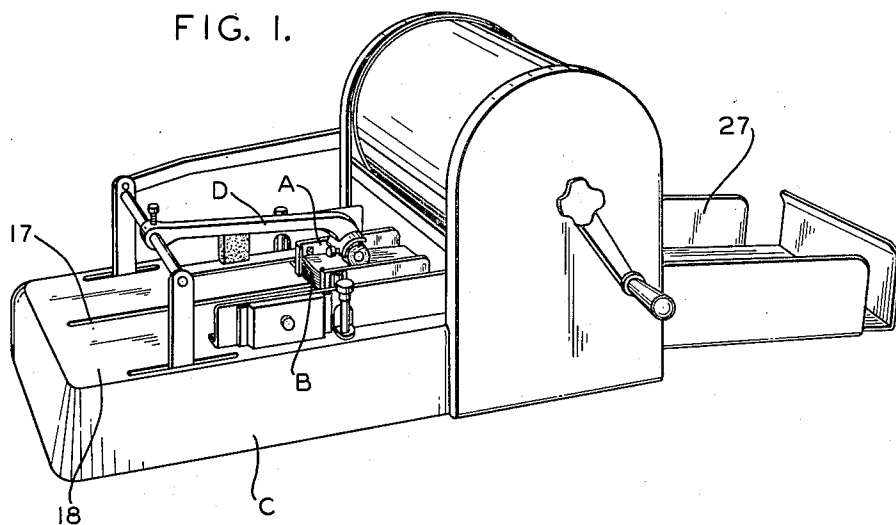


FIG. 2.

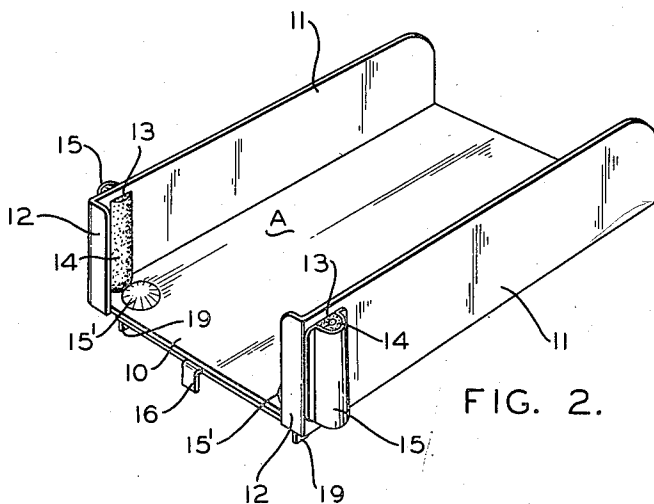
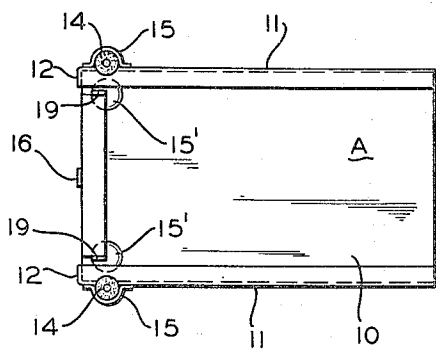


FIG. 3.



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2 SHEETS--SHEET 2

FIG. 4.

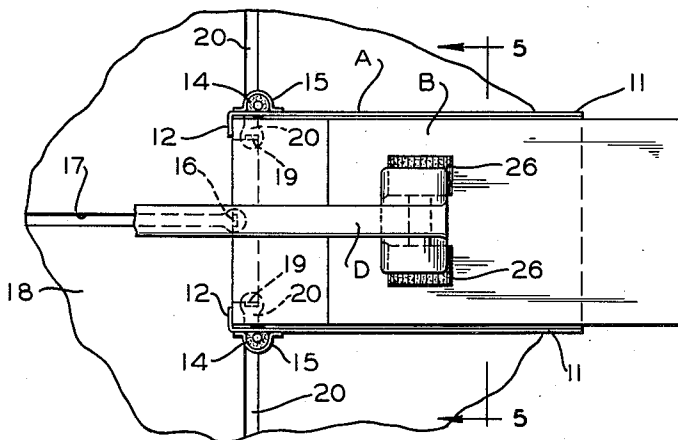


FIG. 5.

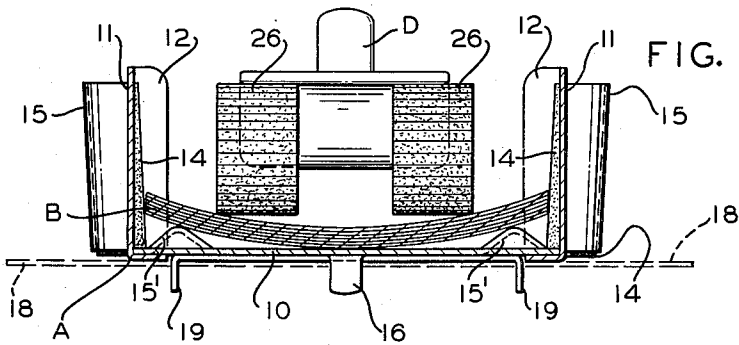
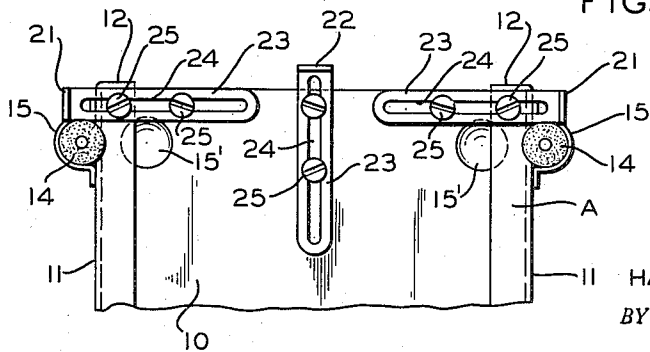


FIG. 6.



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CARD FEEDBOX

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4 Claims. (Cl. 271—61)

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My invention relates to an improvement in an attachment for a duplicator machine which consists of a postcard feedbox.

It is a feature of my invention to provide a feedbox for duplicator machines which produce 5 copies principally from stencils or from a system known as the spirit or direct process.

It is a further feature of my invention to provide a card feedbox which will hold a supply of cards in correct position for positive feeding to a duplicator machine and which may be positioned on the duplicator machine with little adjustment, thus doing away with the adjustment and positioning of the ordinary guides used for work in the size of letters and legal material. My device is so constructed that it may be placed in operating position without the use of connections or tools. My device is used principally with postcards but it may be used with cards of any size. Heretofore postcards had to be fed one at a time by hand to the duplicator machine, or a change of the large guides on the machines had to be made, which change does not prove adequate.

It is a further feature of my invention to provide a card feedbox which may be positioned on a duplicator machine without disturbing the setting of the guides provided with the machine which may be set for letter or legal sized paper.

It is an additional feature of my invention to provide a card feedbox which has resilient retaining posts which prevent more than one card from being pushed into the machine at one time. I also provide risers upon which the cards are positioned. These risers cause the cards to lay in the feedbox in a cupped position which facilitates forcing one of the cards from the feedbox at a time.

It is also a feature to provide projections or locating guides on the bottom of the feedbox to hold the same in rigid position on the feed table of virtually any type of duplicator machine.

These features, together with other details and objects, will be more clearly defined and set forth in the following specification and claims.

In the drawings:

Figure 1 is a perspective view of a duplicator machine with my card feedbox placed in operating position thereon.

Figure 2 is a perspective view of my card feedbox.

Figure 3 is a bottom view thereof.

Figure 4 is a plan view of my card feed box positioned as illustrated in Figure 1, showing the feed arm of the duplicator machine in operating position over the same and the card partially removed from the card feedbox.

Figure 5 is an enlarged sectional view on the line 5—5 of Figure 4.

Figure 6 is a bottom view of an alternative form of adjustment for my card feedbox.

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My card feedbox A is composed of a bottom portion 10 which has secured to the sides thereof the longitudinal side wall portions 11. The partial end wall portions 12 are formed on the rear ends of the feedbox A projecting inwardly from the side walls 11. The front end of the feedbox tray A is open.

Adjacent the rear end of the side walls 11 I provide the openings 13 formed in the side walls 11 and which are adapted to receive a portion of the resilient cylindrical card retaining members 14 which partially project through the openings 13. The card retaining cylinders 14 may be made of rubber or any suitable material. The openings 13 extend the full width of the side walls 11 except for a portion of the side wall 11 at the top edge thereof. The casings 15 are secured to the outer surface of the side walls 11 and retain the cylindrical card retainers 14 in proper position in the openings 13. The distance between the inner surfaces of the retaining members 14 is slightly less than the width of the card B desired to be used with a feedbox tray A. In addition the retaining members 14 are maintained at a slight angle with relation to the side walls 11 as illustrated particularly in Figure 5. The angle of the retainer members 14 facilitates the placing of a large number of cards between the members 14 and also the moving of the cards from the feedbox tray A by means supplied from the ordinary duplicator machine C. The cylindrical retainer members 14 may be inserted into position from the bottom of the casings 15 through an indentation formed in the bottom 10 with the upper end of the retainer 14 butting against the upper edge of the opening 13.

The risers 15' are formed in the bottom 10 adjacent the rear partial end walls 12 and the resilient card retaining cylinders 14. The risers 15' cause the card B to lie in a cupped position which facilitates moving the cards from the feedbox A as particularly illustrated in Figure 5 of the drawings.

I also provide a depending lug 16 which is centrally located on the bottom 10 of the feedbox A. The lug 16 is adapted to fit within the groove 17 found on virtually all duplicator machines and the same positions the feedbox A laterally on the feed bed 18 of the duplicator machine C. The depending rear side lugs 19 are secured to the bottom 10 and adapted to fit the transverse slot 20 found in the feed bed of virtually all duplicator machines. The lugs 19 maintain the feedbox longitudinally upon the feed bed 18 of the machine A.

The lugs 16 and 19 may be adjustable as are the lugs 21 and 22 illustrated in Figure 6 by providing the long angled portions 23 thereon and having formed therein the slots 24. The set screws 25 are positioned within the slots 24 and screwed in-

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to the bottom 10 thereby allowing complete adjustment of the lugs 21 and 22 for duplicator machines which are not universal in construction.

My card feedbox is used in the following manner:

The cards B are placed within the feedbox A so that the side edges are in contact with the partial end walls 12, and the under side of the bottom card rests on the bottom 10 and the risers 15, which tend to maintain the cards in a cupped position. To facilitate the cupping of the cards the cards may be cupped slightly as they are placed in the feedbox A tightly fit between the retaining members 14. The cards B are also, when inserted in the feedbox tray A, positioned against the partial end walls 12. The members 14 tend to hold the cards within the feedbox A under a slight tension but which cards B may be removed therefrom by the movement of the feed arm D as it contacts the upper card by means of the gripping members 26 as secured thereto. With the cards B in cupped position as illustrated in Figure 5 only the lower corner edge of the card contacts the retaining members 14. Thus the contact of the cards B with the retaining members 14 is positive but only on the under lower corner thereof and not along the full edge of the card as would be the case if the cards were flat and not cupped. In this way cards, although positively held, are more easily removed than if the cards were in a flat position.

The card feedbox A with the cards positioned therein as hereinbefore described, is then placed on the bed 18 of the machine C so that either the lugs 19 and 16 or the lugs 21 and 22 fit within the slots 17 and 20. With the feedbox A thus positioned, the machine C is then set in operation, and the feed arm D with the gripping members 26 is caused to contact the upper card and move it toward the stencil roll of the machine where an impression is made on the same. The card is then carried from the stencil roll to a receiving receptacle such as 27.

The feedbox A may be made of a size to handle the Government penny postcard for the printing of the same with a duplicator machine. My device fills a long felt need for a retainer which would quickly, efficiently and easily hold postcards for printing on a duplicator machine. It is obvious that my feedbox tray may be made of a size to handle any given sized cards.

I claim:

1. A card feedbox for duplicating machines consisting of a bottom, side walls, rear end positioning wall means, a transverse opening formed within and adjacent the rear end of each of said side walls, a cylindrical resilient card holding

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member positioned within said transverse openings, casing means for maintaining said card holding members within said transverse openings, raised portions formed on said bottom adjacent said resilient members by pressing the same to hold cards placed in said feedbox in a cupped position.

2. A sheet material feedbox consisting of a bottom, partial end walls, side walls secured to said bottom and having transverse openings formed therein, resilient cylindrical members positioned in said transverse openings a portion of which extends inwardly of said side walls, casing means for maintaining said resilient members in said transverse openings, raised portions formed in said bottom adjacent said resilient members to maintain sheet material placed in said bottom in a cupped position.

3. In a card feedbox, a bottom member having side walls, rear end walls, said side walls having slots formed transversely therein, cylindrical resilient members positioned in said slots, semicircular casings secured to said side walls to maintain said resilient members in said slots, an upwardly extending riser formed from said bottom member closely adjacent each of said resilient members.

4. In a card feedbox having a bottom member, side members secured to said bottom, resilient cylindrical members secured transversely to said side walls, an upwardly extending substantially cup-shaped riser formed from said bottom member closely adjacent each of said resilient members.

HARTVIG E. HOLMBERG.

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