Oct. 20, 1942. R. CONNOR ET AL 2,299,566

CARD SUPPORT

Original Filed Sept. 13, 1940

FIG. 1

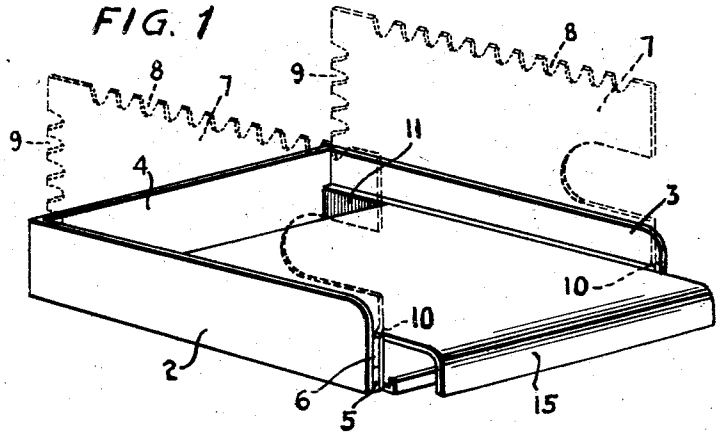


FIG. 2

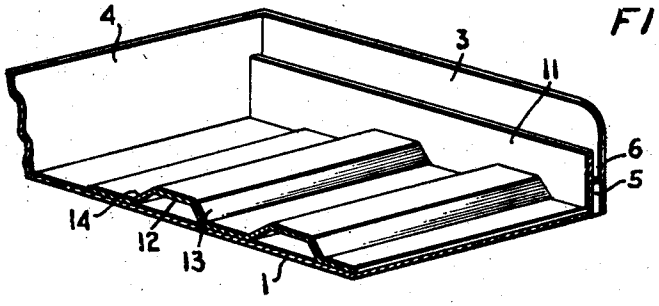
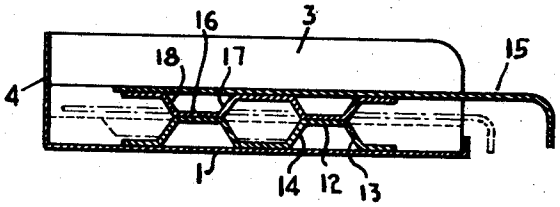


FIG. 3



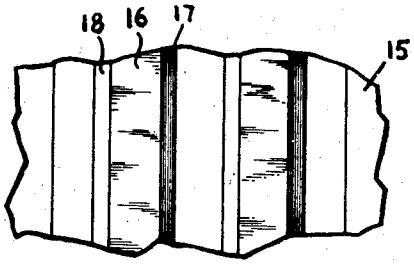


FIG. 4

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CARD SUPPORT

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Original application September 13, 1940, Serial No. 356,632. Divided and this application March 20, 1941, Serial No. 384,363

5 Claims. (Cl. 129—16.1)

Our invention relates more specifically to the class of card supports described in our Patent No. 2,261,717 dated November 4, 1941, of which this is a division.

In that patent is shown a device designed to support a stack of cards such as are known to the trade as "Keysort" being an embodiment of the cards described and illustrated in United States Patent No. 1,544,172 issued to Alfred Perkins June 30, 1925.

Cards of this type are provided with a plurality of perforations adjacent one or more edges. These cards are then notched or slotted to cut away that portion of the card intermediate a perforation and the edge of the card thus forming a pattern of notches which refer to a single classification. When this is done a stack of mixed cards can be sorted into numerical or other desired sequence in the manner set forth in the said Perkins patent, to which reference may be had for complete disclosure.

In making either a sequential or a selective sort of cards of this type it is customary for the operator to grasp as many cards as can be conveniently held in one hand. This stack or group of cards are then evened up on a table top, or desk. A sorting needle is then passed through the various perforations for the purpose of separating the desired cards.

It will be clear that not only must the operator grasp the stack of cards firmly but in order to obtain the desired result they must be held so that the perforations and notches will be in correct registration. Moreover when a multiple needle sorting device such as is described in our Patent No. 2,261,719 dated November 4, 1941, is used it is highly desirable to provide some means to permit the removal of the cards selected either by a single or a multiple needle after removal of the needle.

Our invention has for its principal object to provide a card support which can be so manipulated by the operator that after any sort has been made the bottom of the support may be shifted permitting certain predetermined cards to drop below the remainder.

Our means of accomplishing the foregoing object may be more readily understood by having reference to the accompanying drawing which is hereunto annexed and is a part of this specification in which

Fig. 1 is an isometric perspective view of our improved support;

Fig. 2 is a detail view;

Fig. 3 is a vertical sectional view

Fig. 4 is a fragmentary detail view of a portion of the sliding bottom showing the truncated corrugations.

Similar reference numerals refer to similar parts throughout the entire description:

As shown in the drawing our invention comprises a base 1 which has two upwardly extending side walls 2 and 3 and an end wall 4. The side wall 3 is preferably provided with a shoulder 5 which may be cast or formed with a longitudinal slot 6 which extends the entire length of the side wall.

A master plate or template 7, which has a series of notches 8 on one side which correspond to and are in register with the notches and perforations in the cards which are to be sorted, is provided. This masterplate 7 may also have a series of notches 9 on one of its ends which should correspond to and register with perforations or notches on the ends of the Perkins cards, should it be desired to make use of that portion of the cards. The master plate 7 is formed with an offset portion 10 which is fitted to the slot 6. The plate being offset sufficiently to extend over the shoulder 5 and thus cause the surface of the master plate and the surface 11 of the side to present an unbroken surface.

The bottom 1 has a plurality of truncated corrugations 12 more clearly seen in Fig. 3. These corrugations 12 should have their sides 13 and 14 inclined somewhat in the manner illustrated. They may be secured to the bottom by spot welding or in any other suitable or convenient manner.

Mounted above the bare or bottom 1 is a sliding or false bottom 15, the upper or top surface of which is plane. On the lower surface of this false bottom 15 we attach a number of truncated corrugations 16 which are similar to those attached to the top surface of the base or bottom 1. These corrugations 16 are provided with inclined sides 17 and 18 which are adapted to slide on the sides 13 and 14.

The operation of our invention is as follows: When the false bottom 15 is in normal position it is as shown in full lines in Fig. 3. Obviously sliding this false bottom 15 will permit the corrugations 16 to drop into the spaces between the sides 13 and 14 of the corrugations 12 as clearly seen in Fig. 3.

When the cards are resting on the false bottom in its up or normal position and the master plate 7 is in place, the sorting needle is passed through the desired perforations. After the desired cards are impaled the plate 15 is moved inwardly across

the base 1 so that the false bottom drops. This drop will cause those cards which are held by the needle or needles to remain elevated above the rest. The needle or needles can then be removed and the desired cards grasped manually as and when desired.

Having described our invention what we regard as new and desire to secure by Letters Patent is:

1. A support to hold cards to be sorted comprising a base, connected upwardly extending walls on two sides of said base, a plurality of ridges on said base, a sliding bottom plate having corresponding ridges on its under surface adapted to drop into grooves between said base ridges.

2. A support to hold cards to be sorted comprising a base, connected upwardly extending walls on two sides of said base, a plurality of truncated triangular ridges on said base, a sliding bottom plate, said plate having a plurality of matched ridges on its under side whereby when said ridges are in matched position said plate is elevated and when said ridges are in unmatched position said plate is lowered.

3. A support to hold cards to be sorted comprising a base, said base having a plurality of ridges thereon, a sliding bottom plate having corresponding ridges on its under surface adapted to drop into grooves between said base ridges, connected upwardly extending walls on two sides of said base, one of said walls being spaced from the base and forming a slot therewith and a master plate having a series of notches in more than one of its edges, mounted in said space.

4. A support to hold cards to be sorted comprising a base, upwardly extending walls on the sides and one end of said base, a plurality of truncated corrugations on the top surface of said base, a false bottom slidably mounted between said side walls, a plurality of truncated corrugations on the lower surface of said false bottom adapted to register with the corrugations on the top surface of the base and a master plate having a series of notches in one side and one end, said plate being fitted to one of said side walls.

5. A support to hold cards to be sorted comprising a base, upwardly extending walls on the sides and one end of said base, a plurality of truncated corrugations on the top of said base the sides of said corrugations being inclined upwardly, a false bottom slidably mounted between said side walls, a plurality of truncated corrugations on the lower surface of said false bottom adapted to register with the corrugations on the base, and a master plate having a series of notches in one side and one end said plate being fitted to one of said side walls.

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