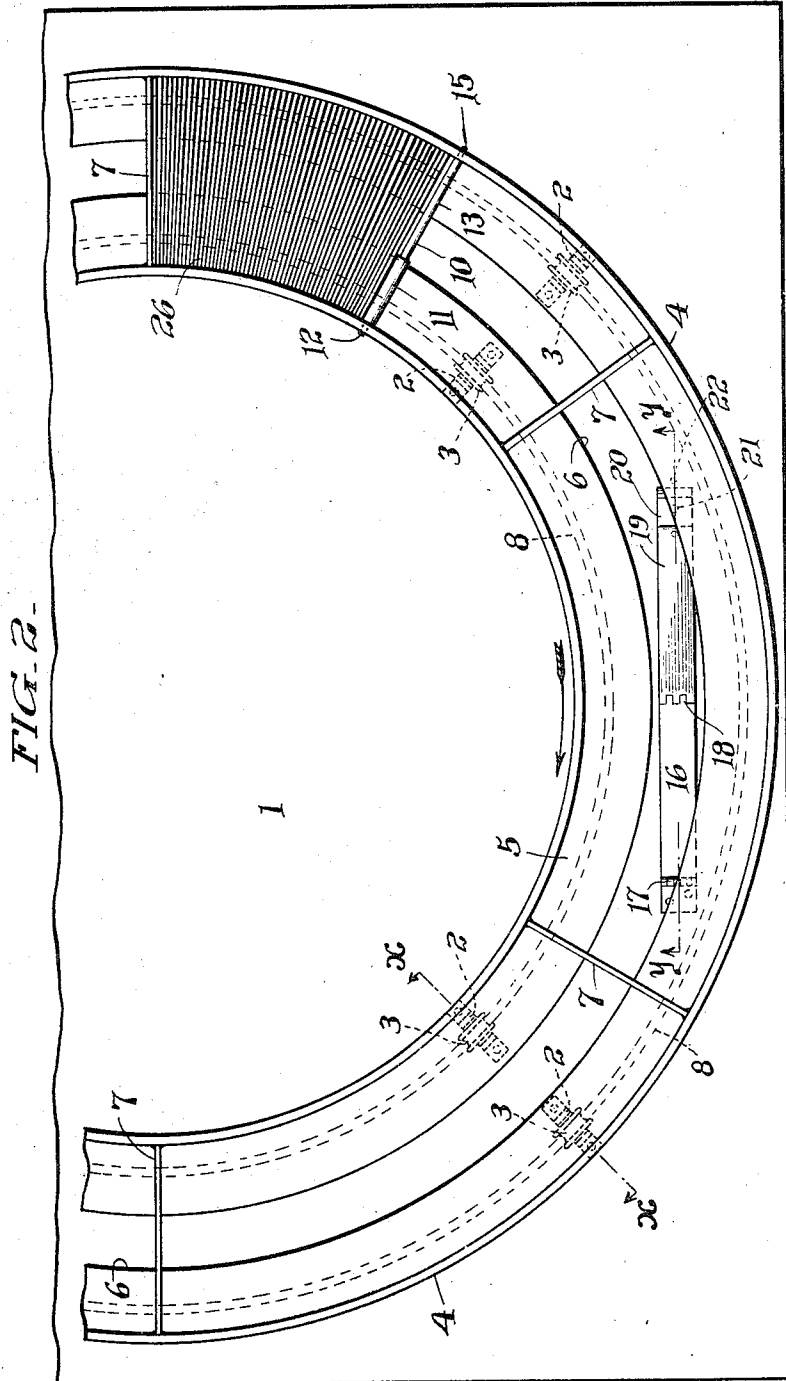
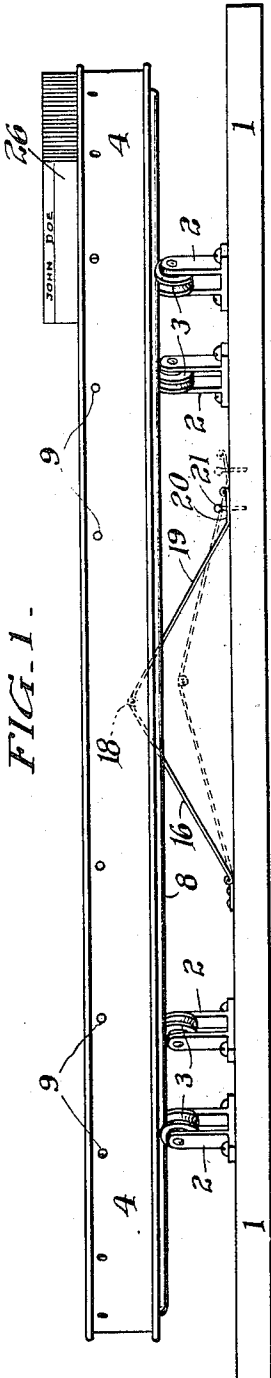


1,130,597.



WITNESSES
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1,130,597.

FIG-5.

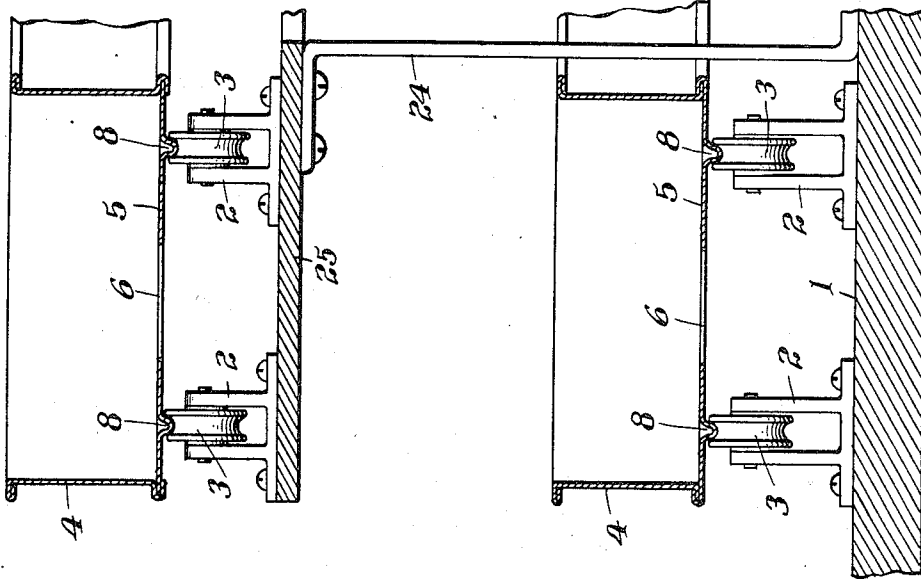
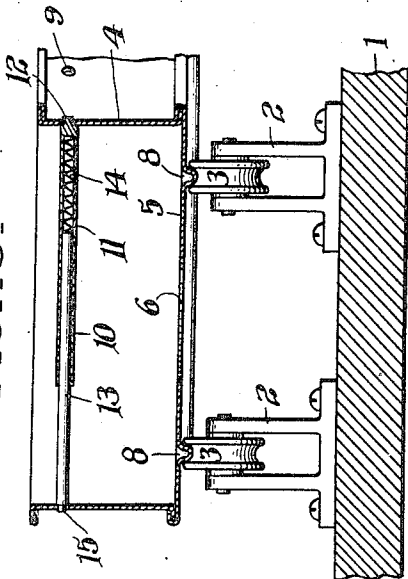


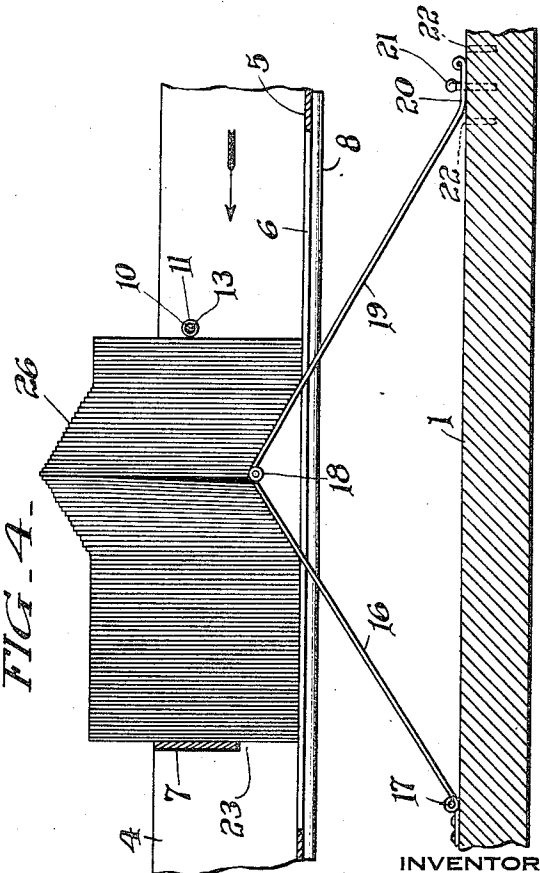
FIG-3.



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FIG-4.



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UNITED STATES PATENT OFFICE.

LEONARD J. HOGG, OF PHILADELPHIA, PENNSYLVANIA.

RECEPTACLE FOR CARDS.

1,130,597.

Specification of Letters Patent.

Patented Mar. 2, 1915.

Application filed May 16, 1914. Serial No. 839,181.

To all whom it may concern:

Be it known that I, LEONARD J. HOGG, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain new and useful Improvements in Receptacles for Cards, of which the following is a specification.

My invention relates to receptacles for filing index cards or the like, and has particular reference to a rotatable type of receptacle, the invention consisting of certain improvements which are fully set forth in the following specification and shown in the accompanying drawings forming a part thereof.

The object of my invention is to provide a tray or receptacle capable of holding a large or small number of cards for index, filing or like purposes, and wherein the cards are so held and arranged as to permit any card or cards to be readily accessible for reference or removal.

It has for a further object to provide a rotatable receptacle for cards adapted to contain a comparatively large number of cards whereby a card in any part or portion of the receptacle may be brought to hand in a minimum time.

It has for a still further object to provide in combination with the receptacle an ejector mechanism adapted to cause a card or cards to be partially separated from the adjacent cards and project above the same so that a desired card or cards may be the more readily separated from the remaining cards.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

For the purpose of illustrating my invention, I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described.

Figure 1 represents a side elevation of a card receptacle embodying my invention; Fig. 2 represents a plan of a portion of the same; Fig. 3 represents a section on line $x-x$ of Fig. 2; Fig. 4 represents a section on line

$y-y$ of Fig. 2; Fig. 5 represents a transverse section of a portion of the device showing a modified construction.

Similar numerals of reference indicate corresponding parts.

1 designates a suitable base forming a support for a plurality of journal brackets 2, each carrying a roller 3, said brackets being preferably arranged in pairs to form outer and inner sets of concentric rollers.

4 designates a receptacle or tray of circular contour adapted to receive index or file cards and being of suitable size to readily receive and hold the cards for ready reference.

The bottom 5 of the receptacle is provided with a slot 6 which extends as here shown throughout the length of the receptacle, so that the receptacle is sub-divided into two juxtaposed parts preferably secured together at intervals by tie members 7.

These members 7 also serve the purpose of partitions to form a number of compartments, the number of which may be varied to suit requirements.

In the present instance the receptacle is shown as constructed of sheet metal and has each part of the bottom plate grooved or outwardly pressed to form a guide rail 8 adapted to seat and ride upon the supporting rollers 3, one rail of course coacting with one set of rollers,

and the second rail with the other set. In order to provide a suitable means to support and hold different quantities of cards in the respective compartments, and more particularly a number of cards less than the capacity of a given compartment, I have provided each side of the receptacle 4 with a plurality of openings 9, those on the inner side being in radial alinement with the respective openings on the outer side for the purpose of receiving a removable spacing element 10 which may thus be inserted at any desired point to hold the cards correctly positioned.

The spacing elements, in the present instance, are all substantially similar and the description of one will suffice for all. These elements consist of a tubular member 11 having an extension 12 of smaller diameter adapted to seat in one of the openings of the side of the receptacle.

13 designates a pin arranged for telescopic connection with the tubular member 11 and normally held outwardly pressed by a spring 14 confined within the member 11.

The outer end of the pin 13 is reduced in

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diameter to form an extension 15 to enter the opening 9 in the opposite wall whereby the spacing element may be readily inserted between any pair of alined openings and form a substantial support for the cards.

The mechanism which I have for convenience called the ejecting device, since it partially ejects or causes certain of the cards to be raised above the others, consists, in the present instance, of a plate 16 of suitable material preferably pivoted or hinged at 17 to the base 1 and having its outer end hinged at 18 to a second plate 19, which terminates in an apertured portion 20 adapted to receive a fastening pin 21. The base 1, in the preferred construction, is provided with a plurality of sockets 22, each of which is adapted to receive the pin 21 in order to vary the position of the two plates relative to the receptacle and to vary the angular inclination of the meeting ends of the plates.

By reference to Fig. 2 it will be seen that the two plates are so positioned as to be in alinement with the opening 6 of the receptacle, through which they project, in operative position, into the path of movement of the cards during the rotation of the receptacle. It will thus be apparent that the function of this jointed member is to provide a double incline or guide-way in the path of the cards for the purpose of raising successively, or ejecting, the cards a determined distance out of the receptacle, whereby a card or cards may be readily separated and removed as desired. It will furthermore be noted that the partitions 7 are each apertured or cut away at the bottom, as shown at 23, to permit free rotation of the receptacle without striking or interfering with the inclined ejector device.

In Fig. 5 I have shown a modified form wherein more than one rotatable receptacle may be used if desired by providing up-rights or supports 24 fixed to the base 1 and extending a suitable distance above the lower receptacle to form a support for a supplemental base 25 upon which another of the receptacles may be mounted. It will be understood, however, that the distance between one receptacle and the other should be sufficient to permit free unobstructed use of the lower receptacle.

In the operation of the device the receptacle is filled with as many cards 26 as desired, the cards being arranged in groups or otherwise according to requirements, by utilizing the different compartments. In case there are a less number of cards for any compartment than are necessary to fill it the spacing element is brought into use and fixed in position so that the cards are properly supported instead of being loosely arranged in a compartment perhaps many times too large. This construction permits any compartment to be sub-divided a num-

ber of times if desired, since it is a simple matter to insert as many spacing elements as may be required.

In general use the ejector guide will be fixed in raised position in order to be in the path of the cards when the receptacle is rotated or partially turned and the cards, therefore, successively ride up one incline of the ejector and down the other. The card or cards moving over the ejector are raised or projected above the remaining cards thus making it very easy to pick out the card or cards required. The device may be used from any point about its circumference and any card or cards be brought to that point by merely rotating or turning the receptacle. Furthermore, since the ejector device is inclined substantially the same in both directions it is possible to turn the receptacle in either direction since the cards will ride up or down with equal facility.

The advantages accruing from the use of the present device over the ordinary card holding drawers is readily apparent since it entirely obviates the tiresome carrying of a large number of different drawers to a point of use or the handling of heavy drawers slidably mounted in a wall case. In addition to ready access to any part of the receptacle by simply swinging it around on its rotary mountings it has the advantage of automatically projecting a portion of the cards so that the one desired may be more readily identified. Furthermore it will be noted that the cards when placed in the circular trough of the receptacle assume a radial position and consequently are slightly separated or spaced apart at their outer ends, making it comparatively easy to sort the cards and distinguish the subject matter of one card from the others.

It will now be apparent that I have devised a novel and useful construction which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while I have in the present instance shown and described the preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent is:—

1. In a device of the character stated, a receptacle for cards having a slot in the bottom thereof, an ejecting device adapted to partially project through said slot and into the path of movement of said cards, and means to movably support said receptacle.

2. In a device of the character stated, the combination of a receptacle provided with a circular trough to hold cards, and having a slot in the bottom of said trough, means to rotatably support said receptacle, and a card ejecting device fixed relative to said receptacle and adapted to partially project through said slot into the path of movement of said cards whereby one or more cards are moved to project above the remaining cards.

3. In a device of the character stated, the combination of a receptacle provided with a circular trough to hold cards, and having a slot in the bottom of said trough, means to rotatably support said receptacle, a card ejecting device having inclined surfaces adapted to partially project through said slot into the path of movement of said cards whereby one or more cards are caused to project above the remaining cards in either direction of rotation of said receptacle.

4. In a device of the character stated, the combination of a receptacle for holding cards, having a slot in the bottom thereof, spacing elements for said receptacle, means to removably secure each spacing element to said receptacle, means to rotatably support said receptacle, and a card ejecting device fixed relative to said receptacle and adapted to partly project through said slot into the path of movement of said cards whereby one or more cards are moved to project above the remaining cards.

5. In a device of the character stated, a circular receptacle for cards having a slot in the bottom thereof, an ejecting device adapted to partially project through said slot and into the path of movement of said cards, circular track members supported beneath said receptacle, and a plurality of rollers suitably supported to engage said track members whereby said receptacle may be rotated at will.

6. In a device of the character stated, the combination of a receptacle provided with a circular trough adapted to hold a plurality of cards, said cards being arranged trans-

versely of said trough and radially with respect to the axis of said receptacle, spacing elements removably secured to said receptacle to suitably divide said cards according to requirements, and means to rotatably support said receptacle in horizontal position whereby said cards may be brought to a common point of use.

7. In a device of the character stated, the combination of a receptacle provided with a circular trough adapted to hold a plurality of cards, said cards being arranged transversely of said trough and radially with respect to the axis of said receptacle, ejecting means operating in conjunction with said receptacle for varying the position of one or more cards with respect to the remaining cards, and means to rotatably support said receptacle in horizontal position whereby said cards may be brought to a common point of use.

8. In a device of the character stated, a plurality of receptacles independently rotatably mounted one above another in a horizontal position, each receptacle consisting of a circular trough adapted to hold a plurality of cards radially disposed with respect to the axis about which said receptacles rotate, and means for causing a card or cards of the respective receptacles to project above the remaining cards in the receptacles.

9. In a device of the character stated, a plurality of receptacles independently rotatably mounted one above another in a horizontal position, each receptacle consisting of a circular trough adapted to hold a plurality of cards radially disposed with respect to the axis about which said receptacles rotate.

In testimony that I claim the foregoing as my invention, I have hereunto signed my name this 15th day of May, 1914.

LEONARD J. HOGG.

In the presence of—

RODNEY MORISON,
FLORENCE D. KIRK.