Feb. 27, 1945. G. E. C. KRAFT 2,370,474

MOUNT FOR ROTARY CARD INDEX BOXES AND FILING CABINETS

Filed June 17, 1942 3 Sheets-Sheet 1

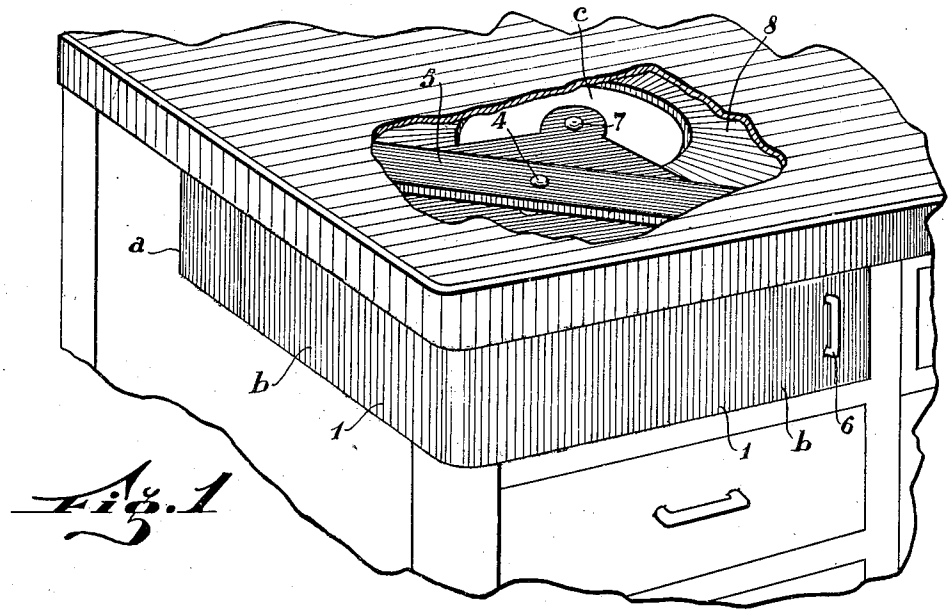


Fig. 1

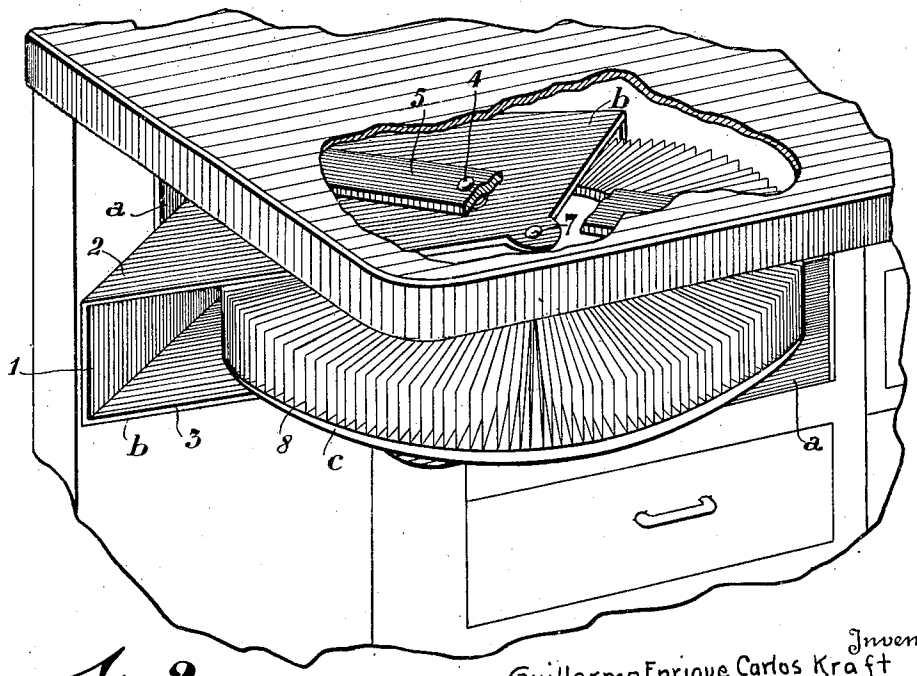


Fig. 2

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MOUNT FOR ROTARY CARD INDEX BOXES AND FILING CABINETS

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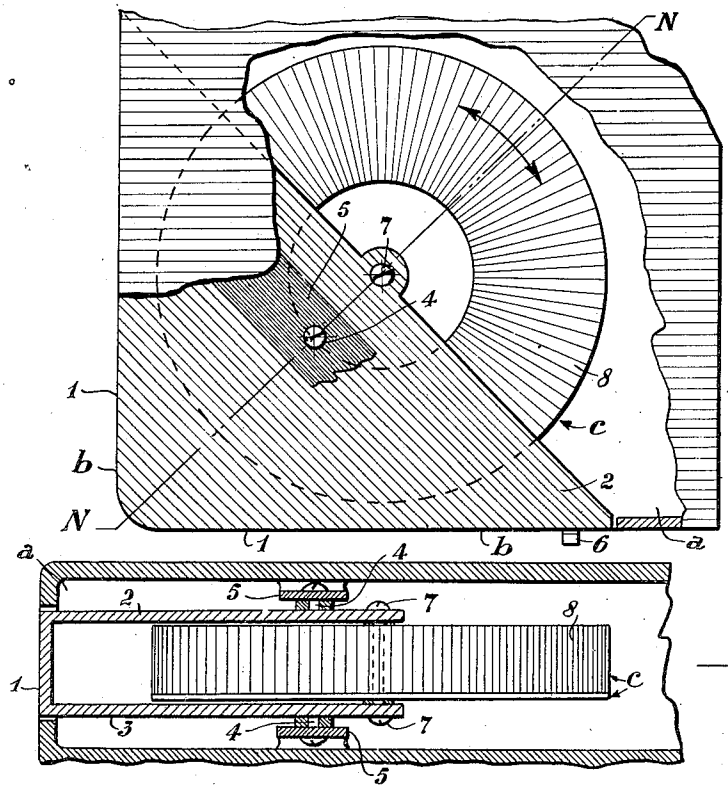


Fig. 3

Fig. 4

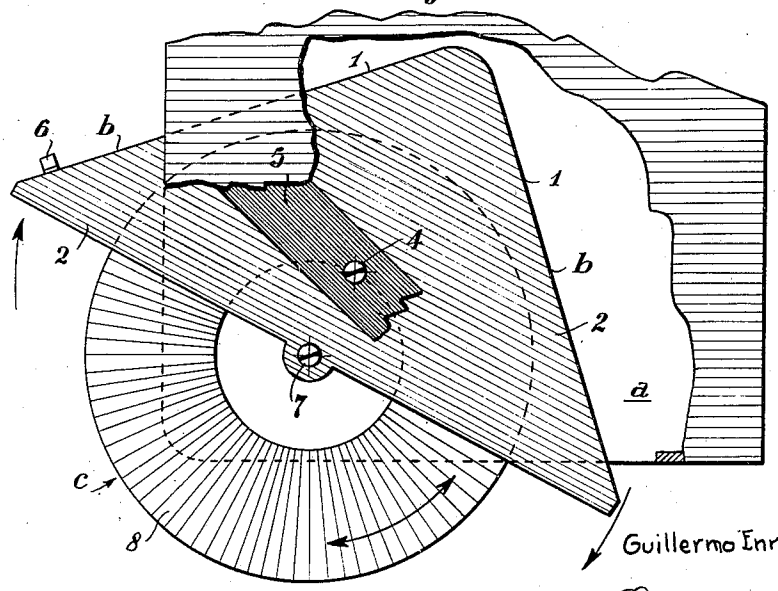


Fig. 5

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MOUNT FOR ROTARY CARD INDEX BOXES AND FILING CABINETS

Filed June 17, 1942 3 Sheets-Sheet 3

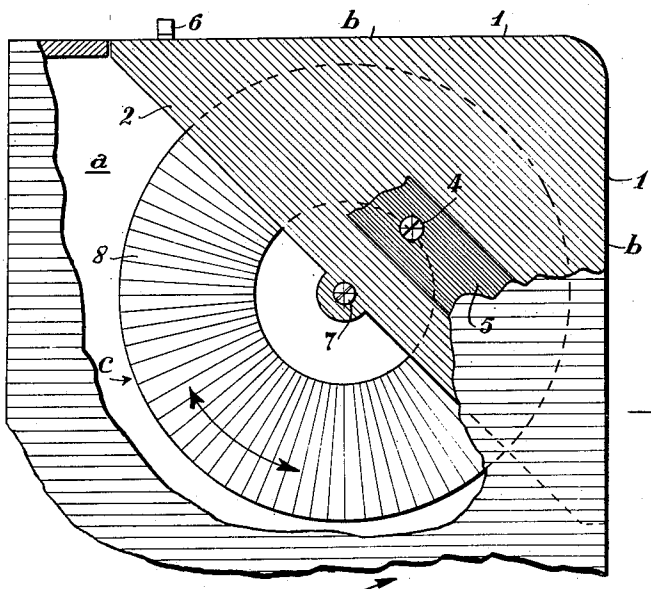


Fig. 6

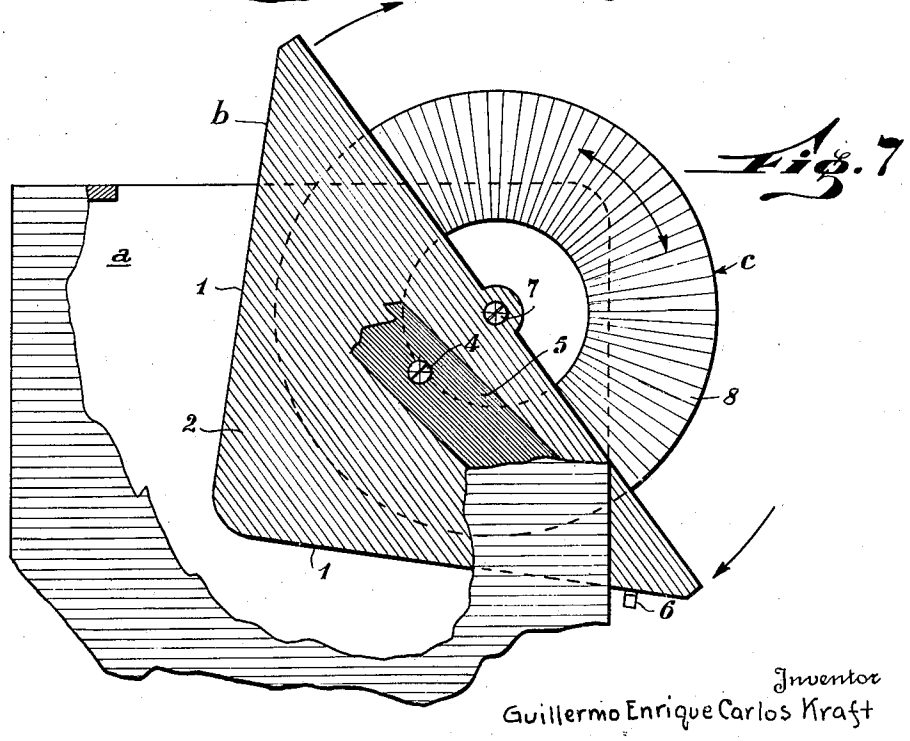


Fig. 7

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Patented Feb. 27, 1945 2,370,474

UNITED STATES PATENT OFFICE

2,370,474

MOUNT FOR ROTARY CARD INDEX BOXES AND FILING CABINETS

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Application June 17, 1942, Serial No. 447,364
In Argentina May 8, 1942

2 Claims. (Cl. 45—3)

This invention relates to improvements in mounts for rotary card index boxes and filing cabinets which, due to their special nature and according to the results obtained in actual tests, offer a good protection through means which, on being opened, set the body of the record in position ready for easy consultation, thereby rendering the device very practical.

More specifically, this invention relates to a device acting as a cover or casing for the rotary body, and also as a holder for said body, and inasmuch as said device is arranged pivoted to the general base, the opening thereof as well as the presentation of the cards within reach of the user's hand or sight, will depend on the displacement of said device.

Since the operation of the device depends on the position of the door or cover of the box or cavity, the mount may be used for locating card boxes in cabinets, desks, bookcases and other pieces of furniture, as well as embedded in walls or the like.

In order that the invention may be more clearly understood and readily carried into practice, same has been illustrated by way of example and in some preferred embodiments in the accompanying drawings, wherein:

Figure 1 is a perspective view of the card index box in idle position, viz; within the cavity therefor, the upper portion of the casing being broken away so as to show the mount which is the subject of the present invention.

Figure 2 is a perspective view of the card-box in operative position, showing the manner in which it remains extended partially out of the furniture, for ready consultation of the contents thereof.

Figure 3 is a plan view of the card box in inoperative position, showing the arrangement of the holder pivot relative to the rotor shaft of said card box.

Figure 4 is a cross-section taken on line N—N of Fig. 3.

Figure 5 is the same plan view of Figure 3, but with the card box in operative position, showing the manner in which, upon opening the cover constituting the holder, the rotary body of the card box is displaced towards the front, extending partially out of the cavity so as to remain within reach of the operator.

Figure 6 is a side view of another form of card box mount, shown in inoperative position. This form, based on the same principle, differs from that of the previous figures only as regards the positions of the shaft and rotation pivot, which in the present instance are in horizontal position, so that the displacement of the cover is effected on a vertical plane; and

Figure 7 is a side view of the same form of Figure 6, shows the card box in operative position.

The same reference characters indicate like or corresponding parts or elements throughout the different figures.

As may be seen from the drawings, *a* is a cavity and, as stated above, said cavity may form part of a simple cabinet or of a desk or other piece of furniture to which it is desired to apply said card box.

Said cavity *a* is closed by means of a cover or door *b*, which in the present instance is a corner door and comprises the angle and part of the two walls of the piece of furniture wherein said cavity is formed.

Said cover or door *b* includes front walls **1** and upper and lower walls **2** and **3**, respectively, forming a casing with said front walls **1**, as clearly shown in the drawings.

The upper and lower portions of the casing of cover *b* are each provided with a pivot **4** through which said casing is mounted on flat bars **5** secured at their ends to the upper and lower walls of said cavtiy *a*.

Under these conditions, the casing formed by said cover *b* is mounted in a pivoting manner and therefore, when taken by the handle **6** thereof, is capable of being displaced from the position shown in Figs. 1, 3 and 6, to that shown in Figures 2, 4 and 7.

At a certain distance from the axis of said pivots **4** and parallel thereto, a shaft **7** is mounted between the walls **2** and **3** of the casing formed by the cover or door *b*, and as may be seen in Figure 5, on said shaft **7** is arranged a rotor *c* in the form of a shelf provided with a central drum to which cards **8** or other recording elements are attached.

Since the card index rotor *c* is mounted on said cover *b* by means of the shaft **7** located at a certain distance from the axis of the pivots **4**, upon the latter being opened it will so displace said rotor *c* that it will be sufficient to open or close said cover *b* to obtain the operative and inoperative position, respectively, of said card index.

The assembly is so calculated that when the cover *b* is in closed position as shown in Figures 1, 3 and 6, the rotary card index will remain completely housed in the cavity *a* acting as a shielded housing.

By merely opening the cover *b*, as shown in Figures 2, 4 and 7, this will not only uncover the cavity *a*, but will also displace the body of the card index sufficiently so that part of the cards 8 will remain out of the cavity *a*, ready for consultation, etc.

The extent to which the body of the card index *c* will extend out of the cavity in its operative position, will depend on the spacing between shaft 7 and the axis of pivots 4. As shown in Figures 1, 3 and 6, when in inoperative position said shaft 7 will be located rearwardly of the axis of pivots 4, and therefore upon opening the cover as shown in Figures 2, 4 and 7, the path followed by shaft 7 is such that it will remain in front of said pivot axis.

In the form of construction of Figures 1, 2, 3, 4 and 5, said axis of pivots 4 of cover *b* and said rotor shaft 7 mounted on said cover are vertical, and consequently both the cover *b* and the rotor *c* act on a horizontal plane of displacement and rotation.

On the other hand, in the form of construction of Figures 6 and 7, the axis of pivots 4 and shaft 7 are located horizontally, so that the cover or door *b* and the rotor *c* are displaceable and rotatable on a vertical plane.

It should be understood that apart from being arranged vertically or horizontally, the shafts and pivots may be arranged obliquely, according to the position in which the body of the card index *c* should work.

In short, the invention comprises a cavity *a* closed by means of a box-shaped cover or door *b* mounted by means of pivots 4 on the walls of said cavity, and in turn said cover serves as a mount for a rotary card index *c* the shaft 7 of which is located at a certain distance beyond the axis of said pivots 4, so that when said card index is within the cavity *a* and closed by said cover *b*, the opening of the latter will cause a displacement of the card box whereby part of the cards 8 will be moved out of the cavity and within reach of the used, all without losing the mounting on the box of said cover *b*, where the card index will remain in a floating-like manner. In the same easy manner, upon closing the cover *b*, the card index will return into the cavity and assume its inoperative position, shielded by the same cover *b*.

Furthermore, it is evident that several modifications in construction and detail may be made by those skilled in the art, without departing from the scope of the invention as clearly set forth in the appended claims.

What is claimed is:

1. A mount for rotary card index systems, comprising a housing provided with a door opening, a door adapted to close said opening and including two parallel wings spaced from each other and projecting into said housing when said door is closed, said door being pivoted to said housing on an axis normal to and intersecting said wings at a sufficient distance from said opening to permit at least a major portion of said door to be revolved completely into said housing, and a card supporting rotor mounted between said wings of said door for rotation about an axis disposed parallel to and inwardly of the pivot axis of said door when the latter is closed, whereby the rotor is caused to project from said opening when said door is revolved into the housing.

2. A mount for rotary card index systems, as claimed in claim 1, in which said door has two front walls at right angles to each other forming in closed position of the door a corner of said housing, said front walls and wings of said door constituting a substantially triangular box intersected by the rotor axis near the center of the triangle base.

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