Aug. 17, 1926. 1,596,741

R. KRANZ

FILING DEVICE FOR CARDS AND THE LIKE

Filed Dec. 16, 1925

Fig. 1.

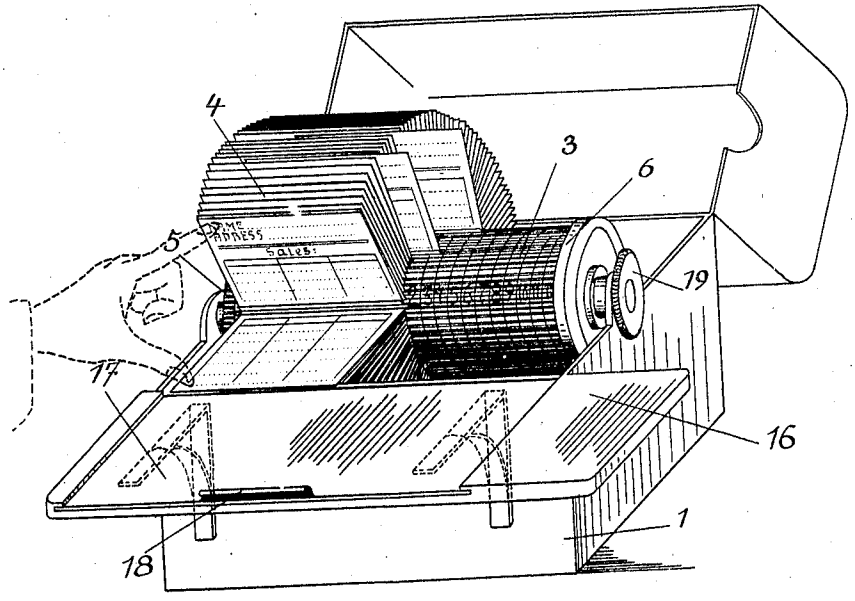


Fig. 2.

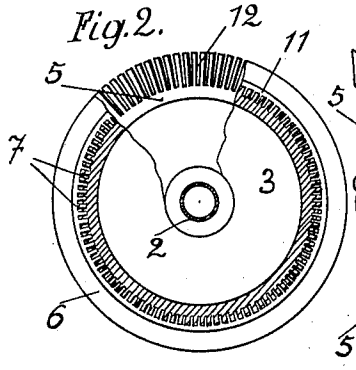


Fig. 3.

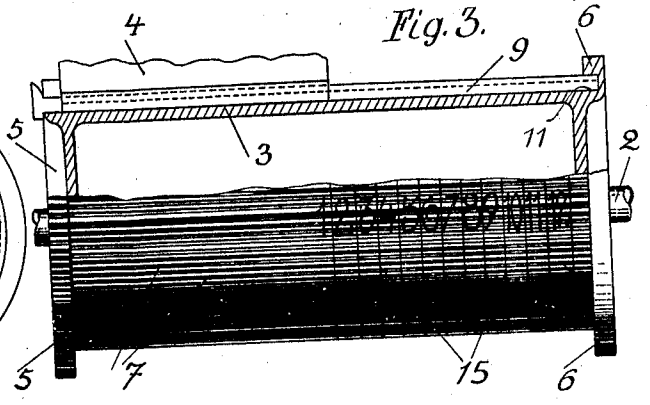


Fig. 4

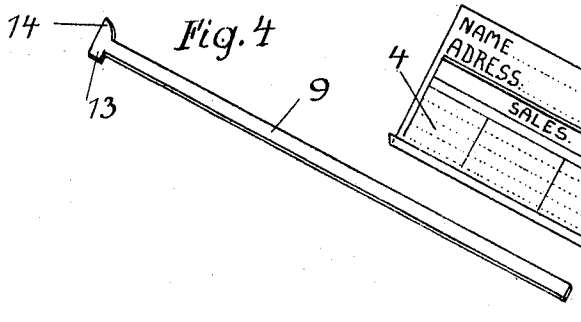


Fig. 5.

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UNITED STATES PATENT OFFICE.

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FILING DEVICE FOR CARDS AND THE LIKE.

Application filed December 16, 1925, Serial No. 75,674, and in Germany October 16, 1925.

The invention relates to filing devices for cards, such as customers' cards, order or term cards or other sheets or cards used in offices and the like.

The invention has for its object to so file cards that they may be found very easily and quickly among the collection, and that it is not longer required to withdraw a card from the device when it is to be inspected or a record is to be made thereon, but to enable the card to remain in its position when inspected or a record is made.

With this object and other incidental objects in view the invention consists in certain novel features of arrangement and construction of a device of this kind, the essential elements of which are set forth in appended claims and a preferred embodiment of which is hereinafter described with reference to the drawing which accompanies and forms part of this specification.

On this drawing:

Fig. 1 is a perspective view of the filing device,

Fig. 2 is an end view and cross section through the card carrier,

Fig. 3 is a side view, partly in section, of said carrier,

Fig. 4 is a detail showing an element for fastening the cards on the carrier,

Fig. 5 illustrates a card such as is used with the present invention.

In the side walls of a box 1, Fig. 1, is mounted for rotation on a horizontal shaft 2 a cylinderical drum 3 which serves as a carrier for the cards 4 to be filed. The drum 3, see Figs. 2 and 3, has radial flanges 5, 6 at both end faces and the shell surface situated between these flanges is fitted with a plurality of grooves 7 which extend in parallel to one another and to the axis of rotation of drum 3.

The grooves 7 and the flanges 5, 6 serve to fasten the cards 4 on the drum 3. This is attained in the following manner.

As will be seen from Fig. 5, the cards have their lower edge bent up so that a fold 8 is formed into which a sheet metal strip 9, Fig. 4, may be put. The grooves 7 of drum 3 are of such a size that a strip 9 together with a card 4 engaged in the described manner may be put thereinto.

The right-hand flange 6 has an inwardly projecting rib of a diameter such as to form a circular groove 11 adapted to engage the rear end of strips 9, while the left-hand flange 5 has radial slots 12 corresponding in number to and forming prolongations of said grooves 7, while their width is such as to cause the strips 9 to tightly fit therein.

When a card is to be filed, it is inserted with its lower, folded edge in a groove 7 and a strip 9 is then put into the fold 8 and into said groove. The strip 9 is then shifted to the right until its right-hand end engages the groove 11 of flange 6, while its left-hand end is inserted into the corresponding slot 12 of flange 5. The strips 9 have a stop 13 abutting against the left-hand end face of drum 3, and a small handle 14 enabling them to be more easily withdrawn.

As will be seen from Figs. 1 and 3, the width of drum 3 is greater than that of the cards to be filed. This offers a means for filing the cards, besides in consecutive number or alphabetic order in the direction of rotation of the drum 3, in a second order along the width of the latter. To this end the shell surface of drum 3 is provided with division lines 15 indicating a weekly or monthly order or the like, and with symbols distinguishing the lines. In the embodiment shown twelve month-lines are provided for denoted by 1 to 12, so that, for instance in a filing device serving to watch over delivery terms, the cards may be filed with their right-hand edge on that of the month lines 15 which corresponds to the delivery month. This positioning of the cards is shown with two cards in Fig. 1, these cards being filed to register with the March-line and May-line, respectively.

A hand and arm support 16, Fig. 1, is arranged at the front side of the device, as shown in Fig. 1, and a plate-shaped slide 17 with handle 18 is arranged thereon so as to be shifted towards the drum 3. When shifted in this manner, the slide 17 forms a writing pad for the card just taking writing position, the writing on the cards thus being facilitated. A hand-wheel 19 serves to easily and quickly rotate the drum 3.

The filing device described may, of course, be fitted with further means facilitating its use; for instance means may provided for locking the drum in a desired angular position, as a ratchet wheel and pawl.

Having now particularly described and ascertained the nature of the said invention and in what manner the same is to be performed, I declare that what I claim is:

1. In a device of the class described a

frame, a drum mounted for rotation on said frame, cards adapted to receive records and each having a fold, grooves in the surface of said drum and extending in parallel with its axis of rotation, strips each adapted to engage the fold of one of said cards and to be put into one of said grooves together with the engaged card and means for securing said strips in operative position.

2. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records and each having a fold, grooves in the surface of said drum extending each along a generatrix thereof, strips each adapted to engage the fold of one of said cards and to be put into one of said grooves together with the engaged card and means for securing said strips in operative position.

3. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records and each having a fold, grooves in the surface of said drum extending each along a generatrix thereof, strips each adapted to engage the fold of one of said cards and to be put into one of said grooves together with the engaged card, said strips being of a length greater than the width of said cards, a flange at one end of said drum, means on said flange adapted to engage said strips at one side of the engaged card, a second flange on said drum and means on said last-named flange adapted to engage said strips at the other side of the engaged card.

4. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records and each having a fold, grooves in the surface of said drum extending each along a generatrix thereof, strips each adapted to engage the fold of one of said cards and to be put into one of said grooves together with the engaged card, said strips being of a length greater than the width of said cards, a flange at one end of said drum, radial slots in said flange adapted to receive the ends of said strips projecting beyond the engaged card, a second flange on said drum, a circular groove on said last-named flange adapted to receive the other ends of said strips, projecting beyond the engaged cards.

5. In a device of the class described a frame, a drum mounted for rotation on said frame, cards adapted to receive records, grooves in the surface of said drum extending in parallel with its axis of rotation, means for fastening each of said cards in one of said grooves, the width of the fastening surface of said drum and the length of said grooves being greater than that of said cards.

6. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records, means for fastening said cards each along a generatrix of the surface of said drum, the width of the fastening surface of said drum being greater than that of said cards.

7. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records, grooves in the surface of said drum extending each along a generatrix thereof, means for fastening said cards in said grooves respectively, the width of the fastening surface and the length of the grooves of said drum being greater than that of said cards.

8. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records, the width of the surface of said drum being greater than that of said cards, means for fastening the cards on said drum in different positions along the width thereof, and means for locating said cards in definite positions along the drum.

9. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records, means for fastening said cards on said drum, the width of the fastening surface of said drum being greater than that of said cards in order to allow the cards to be fastened on said drum in different positions along the width thereof, division lines on said drum running in the direction of its rotation and symbols on said drum for marking said lines.

10. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records and each having a fold, grooves in the surface of said drum extending each along a generatrix thereof, strips each adapted to engage the fold of one of said cards and to be put into one of said grooves together with the engaged card, the length of said strips and the width of said drum and the length of said grooves being greater than that of said cards, a flange at one end of said drum, radial slots in said flange adapted to receive one end of said strips, a flange at the other end of said drum, a circular groove in said last-named flange adapted to receive the other ends of said strips, division lines on said drum running in the direction of its rotation and symbols on said drum for marking said lines.

11. In a device of the class described a frame, a drum mounted for rotation on said frame, cards adapted to receive records, means for fastening said cards on said drum and a hand support mounted on said frame.

12. In a device of the class described a frame, a drum mounted for rotation on said

frame, cards adapted to receive records, means for fastening said cards on said drum, a hand support mounted on said frame, a plate movably mounted on said hand support and adapted to be moved into the path of rotation of said cards so as to form a writing pad for them.

13. In a device of the class described a frame, a cylindrical drum mounted for rotation on said frame, cards adapted to receive records and each having a fold, grooves in the surface of said drum extending each along a generatrix thereof, strips each adapted to engage the fold of one of said cards and to be put into one of said grooves together with the engaged card, the length of said strips and the width of said drum and the length of said grooves being greater than that of said cards, a flange at one end of said drum, radial slots in said flange adapted to receive one end of said strips, a flange at the other end of said drum, a circular groove in said last-named flange adapted to receive the other ends of said strips, division lines on said drum running in the direction of rotation, symbols on said drum for marking said lines, a hand support on said frame, a plate movably mounted in said support and adapted to be moved into the path of rotation of said cards so as to form a writing pad for them.

In testimony whereof I have signed my name to this specification.

RICHARD KRANZ.