

R. H. LANGDALE.

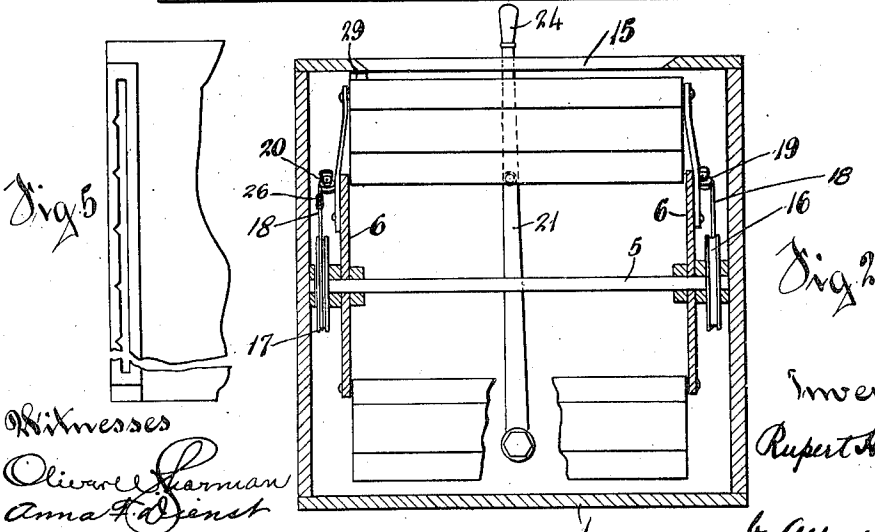
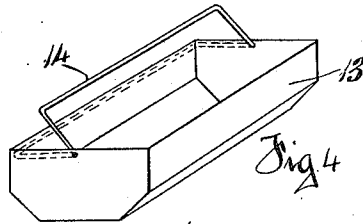
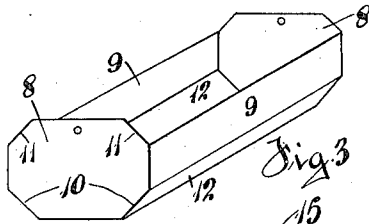
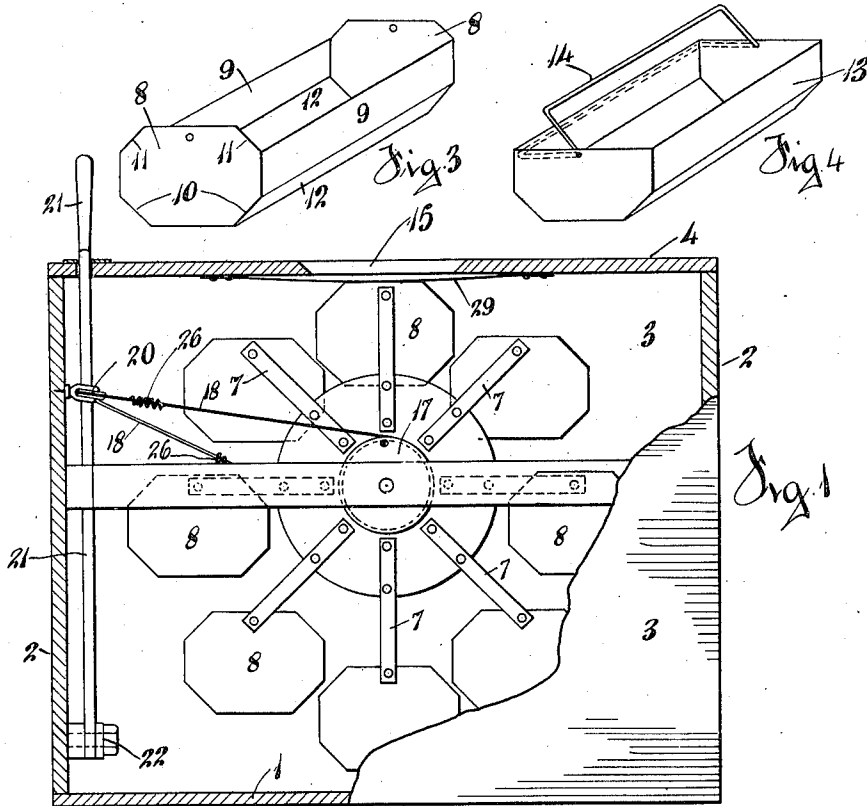
FILING CASE.

APPLICATION FILED APR. 8, 1912.

1,030,898.

Patented July 2, 1912.

2 SHEETS-SHEET 1.



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2 SHEETS-SHEET 2.

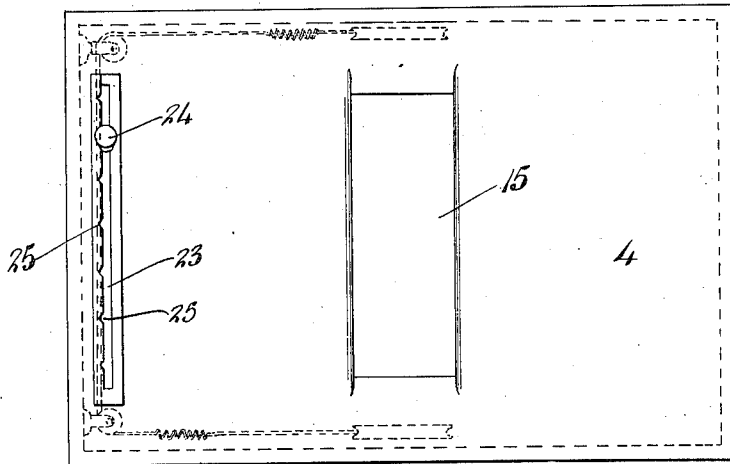


Fig. 6

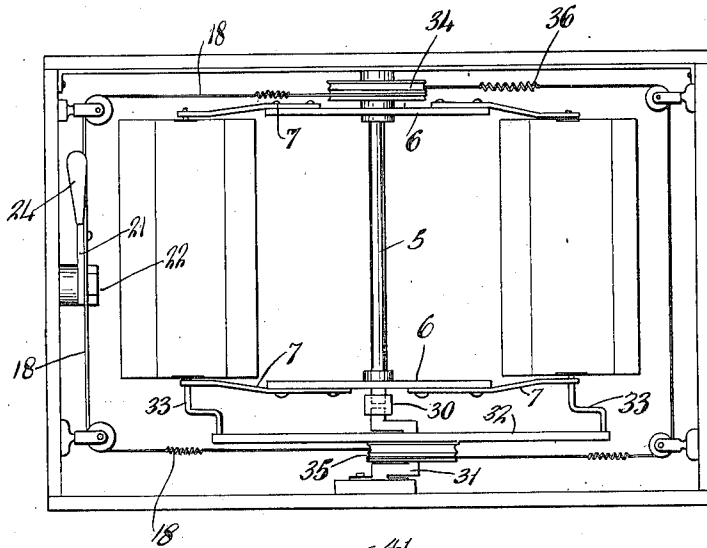
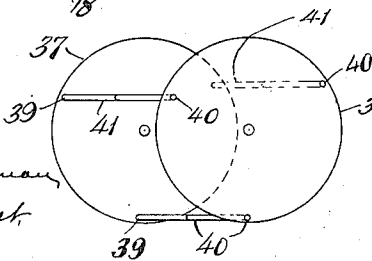


Fig. 7



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UNITED STATES PATENT OFFICE.

RUPERT H. LANGDALE, OF CINCINNATI, OHIO.

FILING-CASE.

1,030,898.

Specification of Letters Patent.

Patented July 2, 1912.

Application filed April 8, 1912. Serial No. 689,300.

To all whom it may concern:

Be it known that I, RUPERT H. LANGDALE, a citizen of the United States, and a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Filing-Cases, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

The object of my invention is to provide a filing case or cabinet for easy access for index and information cards, letters, documents and other papers, in which the more usual construction of drawers and sliding frames for holding the cards or card holders is dispensed with, and the frames or holders are mounted in a rotatable frame, with provision for presenting the desired holder or series of cards at a suitable opening in the case, one holder at a time, so that it shall not be necessary to draw out or remove the several holders from the cabinet in order to obtain easy access to the cards or documents.

The invention consists of that certain novel construction and arrangement of parts whereby the file holders are mounted in pivoted frames or boxes suspended in a rotatable framework, the holders being inclosed in a suitable cabinet, provided with an opening at the top for access to any one of the holders which may be brought to the opening by the rotation of the frame, with means for readily and easily rotating the frame, and in which provision is made for maintaining the file holders in horizontal position and to prevent interference of the holders with each other as the framework is rotated.

In the drawings, Figure 1 is a front elevation of my invention, with the front wall of the casing broken away. Fig. 2 is a central vertical section. Fig. 3 is a perspective view of one of the holders. Fig. 4 is a similar perspective view of a removable card case for the cards, which may be used in connection with the holder illustrated in Fig. 3. Fig. 5 is a detail plan of a portion of the slot for the actuating lever. Fig. 6 is a top plan view of the holder. Fig. 7 is a top plan view, with the top cover removed and illustrating the construction for holding the boxes in horizontal position. Fig.

8 is a diagram illustrating the operation of the construction shown in Fig. 7.

My improved filing case comprises an inclosing casing, preferably rectangular in shape and formed of any suitable material to form an inclosure, with bottom 1, end walls 2, 2, side walls 3, 3, and top 4. Mounted in suitable bearings in the side walls of the casing is a shaft 5, provided with disks 6, 6, at either end, from which project a series of radial arms 7, 7. In the outer ends of these arms are pivotally mounted a series of trays or holders, such as are shown in Fig. 3. These trays or holders may thus serve as the receptacles for the index or information cards; or when made of the proper size, for letters or other documents, and each tray or holder is formed of the ends 8, 8, connecting sides 9, 9, with the corners beveled off at 10, 10, and preferably at 11, 11, so as to form a holder with octagonal ends. When desired, a bottom is provided for each holder and also side pieces 12, 12. The cards may be placed directly in these holders; but in certain cases I prefer to provide a separable tray 13 (Fig. 4), provided with a bail 14, so that, if desired, the cards may be removed from the case in the holder. As many of these holders are provided as can be mounted in the frame without interfering with each other as the frame is rotated. In order to permit a larger number of holders, the corners of the holders are beveled off as described.

In order to conveniently rotate the framework to carry each holder as desired to the top of the case where access may be had to the contents through the opening 15, I provide pulleys 16, 17, at each end of the shaft 5 inside the casing wall and connect these pulleys at opposite sides of the circumference with the cable or flexible cord 18. This cord, preferably of wire, is given a partial winding on one pulley 16, and extends over the small pulleys 19, 20, to the other pulley 17, where it is given a winding in the opposite direction. Connected to this cable 18 is a hand lever 21, pivoted on a stud 22, near the bottom of the casing on the inside, and extending out through a slot 23 in the top of the case, where the lever is provided with a handle 24. The slot 23 is provided with a series of notches 25, 25, to receive a lug on the lever 21, so as to hold

the hand lever in any desired position, and these notches correspond to the number of holders mounted in the frame.

In order to take up any possible slack in the cable, I insert coiled tension springs 26 in the cable length, so that the cable is always held taut.

It will be evident from this construction that as the lever 21 is moved from side to side, the framework carrying the boxes will be rotated to bring the desired boxes to the opening 15. In order that the boxes may be held from swinging at the opening, I provide the flat springs 29 at each end of the opening, to engage the upper edge of the holder to hold it rigid.

In order to maintain the horizontal position of the boxes at all times, in the event that it is desired to prevent any swinging of the boxes, I provide the construction shown in Fig. 7. In this construction, an additional disk 32 is mounted in the casing eccentric of the disks 6, 6, on the stud 31. This stud is preferably U-shaped and the end of the shaft 5 is mounted by the collar 30 on this stud. The disk 32 is connected by arms 33, 33, with each other. The arms 33 are rigid with the box and the ends of the arms are journaled so as to turn in the disk 32. Instead of the single pulleys 16, 17, I provide the double pulleys, 34 on the shaft 5 and 35 on the stud 31, and the cable 18 in this construction runs from one of these pulleys, as 35, to one of the other pulleys 34, and another cable 36 runs from the other pulley 34 to the corresponding pulley 35.

With this construction, the boxes cannot swing in the radial arms 7, 7, but the boxes will be held in horizontal position at all times. The effect of connecting the boxes with the eccentric disk is illustrated in the diagram, Fig. 8, it being understood that the ends of the arms 33, 33, are pivoted in the disk 32 in the same corresponding position that the boxes are mounted on the arms 7, and that the distance between the points of attachment of any two opposite boxes on the arms 7, 7, is the same as the distance between the outer ends of the arms 33, 33, for said boxes.

In the diagram, Fig. 8, 37 represents the path of travel of the pivotal point of the boxes with the arms 7, and 38 represents the path of travel of the outer ends of the arms 33 in the disk 32, and the points 39, 40, in the diagram indicate various positions of the two points of connection. The lines 41 indicate the horizontal position of the boxes. Inasmuch as the paths of travel have the same radius and the points travel at the same rate of speed, the corresponding points on the two paths will always maintain a horizontal position.

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

1. In a filing case, an inclosing casing having a longitudinal opening in the top surface for access to the interior, a rotatable frame mounted in said casing, with a series of holders pivotally supported at either end of said frame in a line parallel to the axis, a hand lever pivoted in the casing to swing in a path parallel to the axis of the rotatable frame, and a flexible connection from said lever to each end of said rotatable frame whereby the frame may be rotated to bring any desired holder in register with said opening.

2. In a filing case, an inclosing casing having a longitudinal opening in the top surface for access to the interior, a rotatable frame mounted in said casing, with a series of holders pivotally supported at either end of said frame in a line parallel to the axis, and means for rotating said frame to bring any desired holder in register with said opening, and springs at the ends of said opening to engage the holder presented, to hold it in position.

3. In a filing case, an inclosing casing having a longitudinal opening in the top surface for access to the interior, a rotatable frame mounted in said casing, with a series of holders pivotally supported at either end of said frame in a line parallel to the axis, a hand lever pivoted in the casing to swing in a path parallel to the axis of the rotatable frame, and a flexible connection from said lever to each end of said rotatable frame whereby the frame may be rotated to bring any desired holder in register with said opening, and springs at the ends of said opening to engage the holder presented to hold it in position.

4. In a filing case, an inclosing casing having a longitudinal opening in the top surface for access to the interior, a rotatable frame mounted in said casing, with a series of holders pivotally supported at either end of said frame in a line parallel to the axis, a hand lever pivoted in the casing to swing in a path parallel to the axis of the rotatable frame, pulleys to actuate said rotatable frame, one concentric and the other eccentric of the axis thereof, and a flexible connection from said hand lever to said pulleys, with each holder pivotally secured to said eccentric at a point corresponding to its pivotal connection with the frame, whereby the holders may be held in horizontal alignment with the rotation of the frame.

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Witnesses:

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