J. HECHT.

ROTATABLE WICKET.

APPLICATION FILED SEPT. 11, 1915. RENEWED MAY 31, 1919.

1,346,823. **Patented July 20, 1920.**

2 SHEETS—SHEET 1.

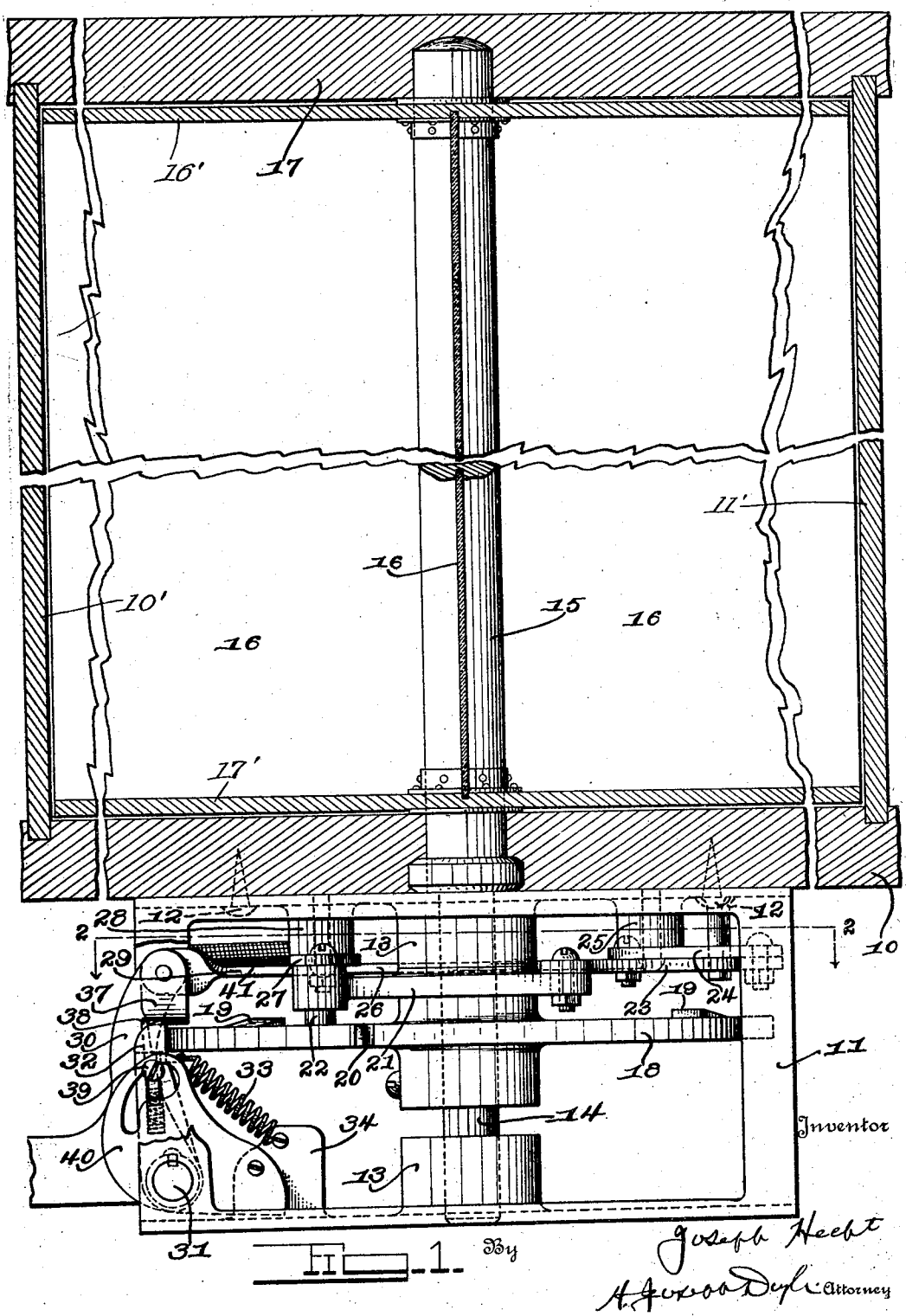


Fig. 1.

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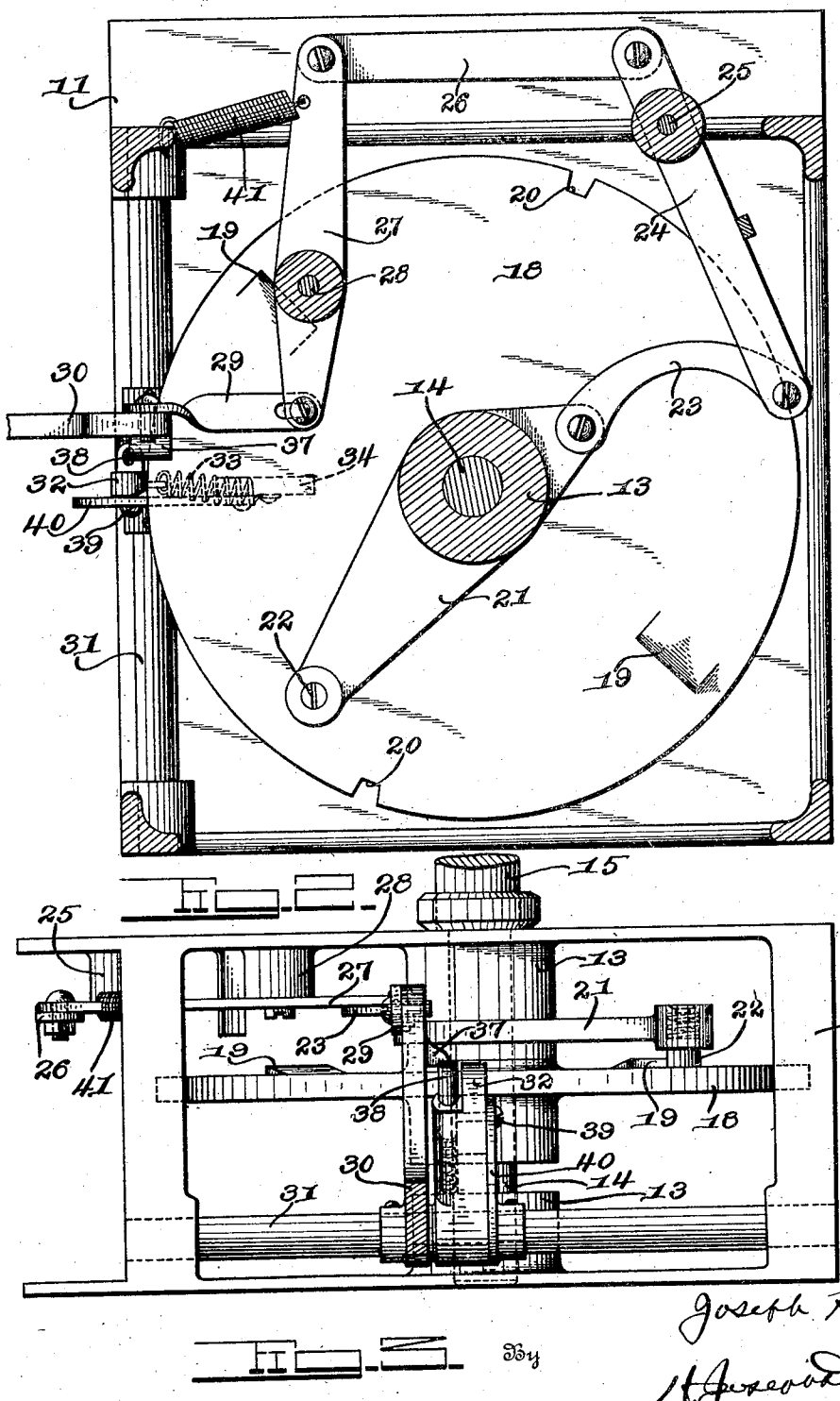
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ROTATABLE WICKET.

1,346,823. Specification of Letters Patent. Patented July 20, 1920.

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To all whom it may concern:

Be it known that I, JOSEPH HECHT, a native citizen of the United States, residing at 870 East 21st street, borough of Brooklyn, New York city, in the county of Kings and State of New York, have invented certain new and useful Improvements in Rotatable Wickets, of which the following is a specification.

This invention relates to wickets for use in connection with windows of banks, ticket offices and the like, and it is the primary object of the invention to provide a wicket to at all times maintain the window opening closed to prevent the passage of cold air or drafts through the window and to protect the counter from the surreptitious removal through the window of money or other articles stored behind the same, and while at all times maintaining the window opening closed permitting the transporting of articles through the window opening.

It is a further object of the invention to provide a rotatable wicket normally locked against movement, and means to unlock and impart a partial rotation thereto, and at the termination of a predetermined rotative movement again automatically lock the wicket against movement.

In the drawings accompanying and forming a part of this specification Figure 1 is a sectional side elevation illustrating an embodiment of my invention applied to a window.

Fig. 2 is a horizontal sectional view taken on the line 2—2 of Fig. 1; and

Fig. 3 is a front elevation showing the means to lock the wicket in a predetermined position.

The embodiment of my invention shown in the drawings consists of a casing 11 to carry the operating mechanism of the wicket, to be hereinafter described, secured to the under side of a counter or shelf 10 by screws 12. A shaft 15 rotatable on a vertical axis and passing through the counter 10 is journaled by a reduced portion 14 in bosses 13 at the top and bottom of the casing 11, the upper end of the shaft being rotatably supported in a frame member 17 at the top of the window opening. A disk 16′ is secured to the shaft 15 adjacent the top below the frame member 17, and a similar disk 17′ is secured to the shaft adjacent the counter 10, panels 16 radiating from the shaft 15 in diametrically opposite directions to the periphery of the disks 16′ and 17′ with the upper and lower edges of said panels engaging in recesses in the disks and forming compartments between the adjacent panels with a supporting or receiving table upon which articles may be placed to be transported through the window opening. The shaft, panels and disks constitute the wicket, although it will be obvious that the wicket may be of different form and construction and come within the scope of my invention.

The wicket rotates in or between a pair of opposite vertical side members 10′ and 11′ which may constitute the sides of the window frame, and lie adjacent the periphery of said disks and the ends of the panels 16. The lower ends of the partitions engage in recesses in the counter 10 and the upper ends engage in recesses in the member 17. The partitions are so proportioned that one panel of a pair of panels will always lie adjacent one of said partitions and the other panel adjacent the other partition in all positions of the wicket, whereby the window opening will be closed by the wicket at all times preventing the passage of drafts or cold air through the window opening and also preventing the passage of a hand or an instrument through the window opening to surreptitiously remove articles through the window.

A disk 18 is secured to the reduced portion 14 of the shaft within the casing 11, said disk having stop lugs 19 upon its upper surface and diametrically opposite notches 20 in the periphery located at a point between the lugs 19. An operating arm or lever 21 is pivotally mounted upon the reduced portion of the shaft above the disk 18, a plunger 22 being carried at one end of the lever to have vertical sliding movement and caused to engage with the upper surface of the disk by a spring, as clearly shown in Fig. 3. The other end of the lever is pivotally connected to one end of a link 23, the other end of the link being pivotally connected to one arm of a lever 24 pivotally supported at 25 in the frame 11, and the other arm of said lever connected by a link 26 with a second lever 27 pivotally supported at 28 by the casing. The lever 27 is connected by a link 29 with the upstanding arm of a bell-crank lever 30 pivotally mounted upon a rod 31 supported

in the casing and the horizontal arm of the lever extending forward from the casing 11 in position to be conveniently manipulated. It will be obvious that a pedal may be connected to said bell-crank lever 30 if desired. A dog 32 is also pivotally supported upon the rod 31, said dog having a reduced portion to engage in the notches 20 of the disk 18 and yieldingly maintained in a notch by a spring 33 connected to the dog and a lug 34 of the casing. The upstanding arm of the bell-crank lever 30 has a laterally projecting lug 37 to engage the flattened side of the spring influenced detent 38 located in a recess in said dog, said detent having an inclined portion to permit the lug 37 to pass the same in one direction without affecting the position of the locking dog 32. To permit of manual operation of the detent 38 it has a laterally projecting pin 39 extending through a slot in the dog 32 and through a slot in a guide member 40, the latter slot being shaped to permit the dog to rock.

In operation the disk 18 with the connected wicket is locked in a predetermined position by the engagement of the dog 32 with one of the notches 20. Should it be desired to rotate the wicket the bell-crank lever 30 is rocked by pressing upon the forward projection thereof bringing the lug 37 against the flattened side of the detent 38 whereby the dog 32 is moved against the tension of its spring 33 and out of engagement with the notch 20. Simultaneously with this releasing movement of the dog 32 by the lever 30 the operating lever 21 is actuated through the link 29 connected to the bell-crank lever and through intermediate levers and links 27, 26, 24 and 23. As the actuating lever 21 is swung the plunger 22 carried thereby abuts against one of the lugs 19 and thereby imparts a partial rotation to the disk and connected wicket, or until the succeeding notch 20 comes opposite the dog 32 and the latter is caused to engage therewith by its spring 33, the said dog upon the release of the lever 30 through the action of its spring engaging with the periphery of the disk during the rotative movement of the latter. When the lever 30 is released it is returned to initial position by the spring 41 connected to the lever 27 and the casing, the lug 37 moving over the inclined portion of the detent 38 and into engagement with the flattened side thereof. The spring 41 also serves to return the actuating lever 21 to initial position. The disk lugs 19 are inclined on the top to permit the plunger 22 of the actuating lever to readily ride over said lugs during the rotation of the disk and as said arm is returned to initial position.

Having thus explained the nature of my invention and described an operative manner of constructing and using the same, although without attempting to set forth all of the forms in which it may be made, or all of the forms of its use, what I claim is:—

1. The combination with a window, of a rotatable wicket to close and transport articles through the window including a shaft to rotatabiy support said wicket; a disk fixed to the shaft; a pivoted dog to coöperate with a recess in the disk to lock the wicket against movement; an operating arm mounted loosely on the shaft provided with means for engaging said disk to impart rotation thereto when the arm is moved in one direction; and lever operated means to release the dog from the disk and actuate the disk rotating arm for the purpose specified.

2. The combination with a window, and wicket to close said window and transport articles therethrough, of a shaft to rotatably support the wicket; a disk attached to and rotatable with the shaft; an operating arm pivotally supported by said shaft having means to coöperate with said disk to rotate the same when moved in one direction; a detent dog to coöperate with notches in said disk to lock the same and the wicket against movement in predetermined positions; and means to release the dog from the disk and actuate said arm, substantially as and for the purpose specified.

3. The combination with a window, of a wicket to close the window and having means to support and transport articles through the window including a shaft to rotatably support the wicket with a part of the shaft projecting through and below the lower part of the window frame; a casing in which the shaft is rotatably supported; a disk mounted on the projecting end of the shaft to rotate therewith; a locking dog to engage a recess in the disk to lock the wicket in a predetermined position; means coöperating with the disk to rotate the same; and means to actuate the disk rotating means and operable to release said locking dog from the disk previous to actuating the disk rotating means for the purpose specified.

4. The combination of a rotatable wicket including a shaft to rotatably support the wicket; a disk mounted on and rotatable with said shaft; a locking device to engage the disk to hold the wicket against rotation; an arm loose on the shaft having means to coöperate with the disk to rotate the disk as the arm is moved in one direction; a lever to actuate said arm, and said lever being arranged to disengage said locking device from the disk when operated to actuate the disk rotating arm for the purpose specified.

5. The combination with a rotatable wicket including a rotatable shaft to support the same, of a disk mounted on and rotatable with the shaft and having lugs extending from the face thereof; a pivoted dog to engage in a recess in the periphery of the disk to hold the wicket against rotation; an arm

loose on the shaft superposed to the disk; a yielding plunger carried by the arm to engage a disk lug to rotate the disk when the arm is moved in one direction and ride over the disk lug when the arm is moved in reverse direction; and a lever to impart disk rotating movement to the arm, said lever being operable to disengage the dog from the disk recess to release the wicket by the arm actuating movement of the lever.

6. The combination with a wicket including a rotatable shaft to support the wicket, of a disk mounted on and rotatable with said shaft; a pivoted dog yieldingly urged toward the disk to engage a recess in the disk to lock the disk and thereby the wicket against rotation; a spring influenced detent carried by the dog; means to rotate the disk; and a lever operable to actuate the disk rotating means, said lever having a laterally projecting lug to engage the dog detent when moved to actuate the disk rotating means to release the dog from the disk recess and to ride over the detent when the lever is returned to initial position with the dog engaging the disk recess for the purpose specified.

7. The combination with a wicket including a rotatable shaft to support the wicket, of a disk mounted on and rotatable with said shaft, said disk having diametrically opposite lugs projecting from the face thereof and diametrically opposite recesses in the periphery thereof; a pivoted dog yieldingly urged toward the periphery of the disk and adapted to engage a disk recess to lock the disk and thereby the wicket against movement; an arm loose on the shaft superposed to the disk; a yielding plunger carried by the arm and arranged to coöperate with a disk lug when moved in one direction to impart rotative movement to the disk and wicket; a lever operatively connected to the arm to actuate the arm to rotate the disk; a spring influenced detent carried by the dog adapted to be engaged by a lug projecting from the lever when the lever is moved to actuate the disk rotating arm to release the dog from the disk and to ride over said detent when the lever is returned to initial position with the dog engaging a disk recess for the purpose specified.

8. The combination with a window, and a rotatable wicket to close said window in all positions thereof having means to support an article, a disk connected to the wicket having oppositely disposed notches in the periphery; a spring influenced dog to engage in the disk notch to lock the wicket in a predetermined position; a spring detent carried by the dog; a lever having means to coöperate with the detent to throw the dog out of the disk notch; and means operable by the lever when the dog is thrown out of the disk notch to coöperate with the disk to rotate the wicket, substantially as and for the purpose specified.

9. The combination with a window, and a rotatable wicket to close said window in all positions thereof and having means to support an article, of a disk connected to the wicket having oppositely disposed notches in the periphery and lugs projecting up from the upper surface thereof between the notches; a spring influenced dog to engage in the disk notch to lock the wicket in a predetermined position; a lever operable to throw the dog out of the disk notch; a pivotally supported arm operable by the lever when the dog is thrown out of the disk notch, said arm having means to engage with a disk lug when it is operated by the lever to impart rotative movement to the disk and connected wicket, substantially as and for the purpose specified.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOSEPH HECHT.

Witnesses:
GROVER C. SNIFFEN,
WILLIAM A. DWYER.