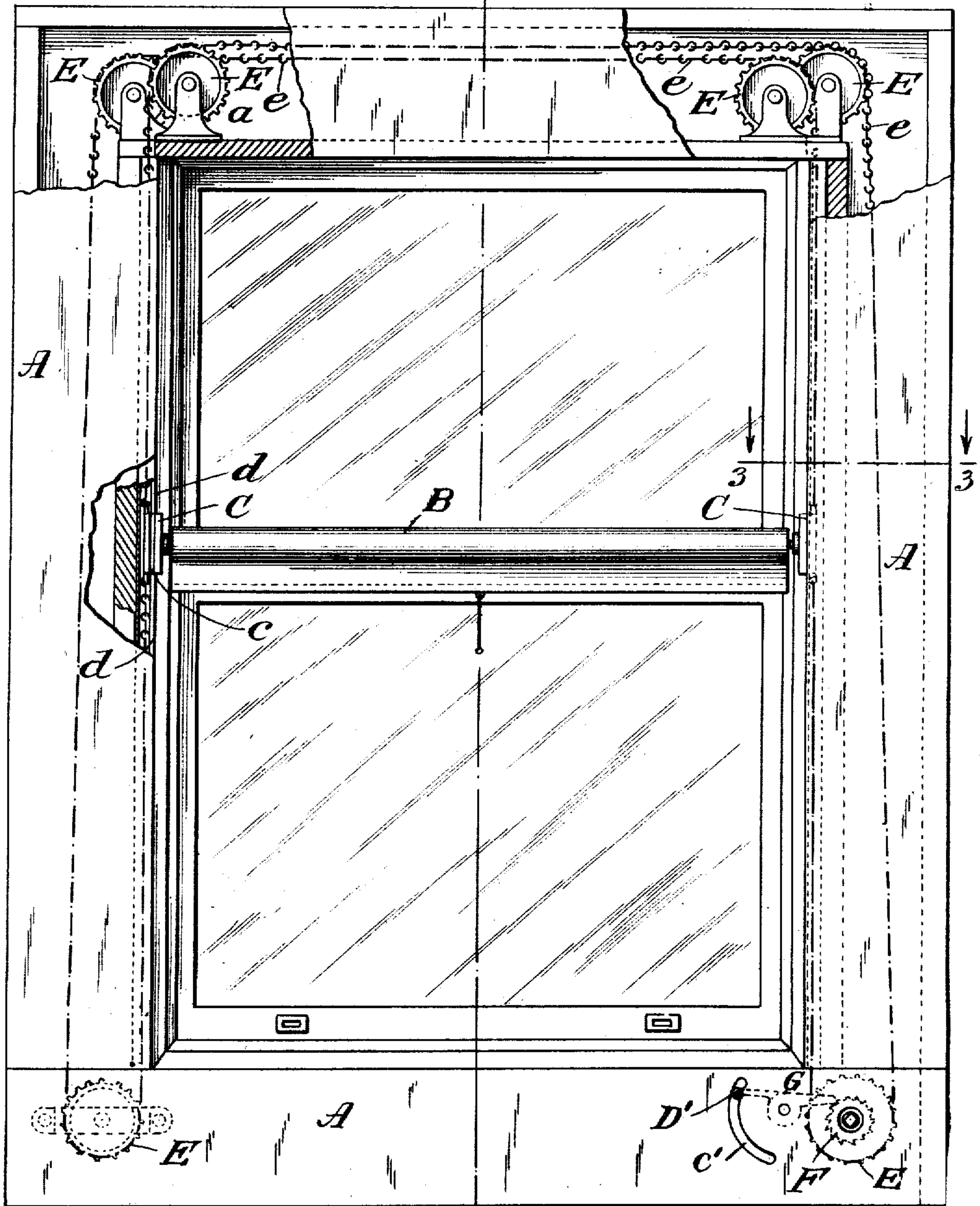


G. F. KELSEY.
MOVABLE SHADE ROLLER.
APPLICATION FILED JULY 10, 1907.

922,151.

Patented May 18, 1909.
2 SHEETS—SHEET 1.

Fig. 1 → 2

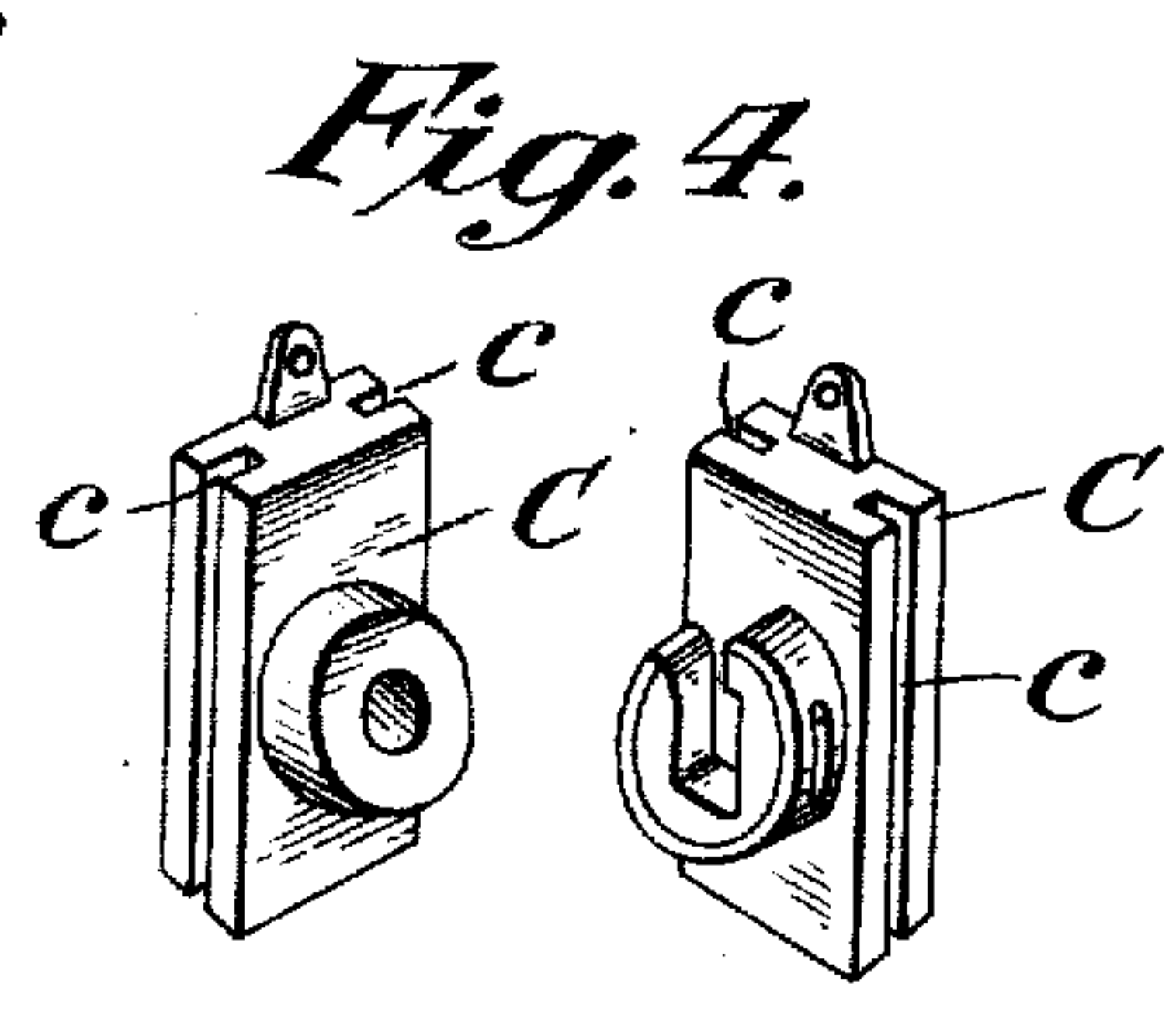
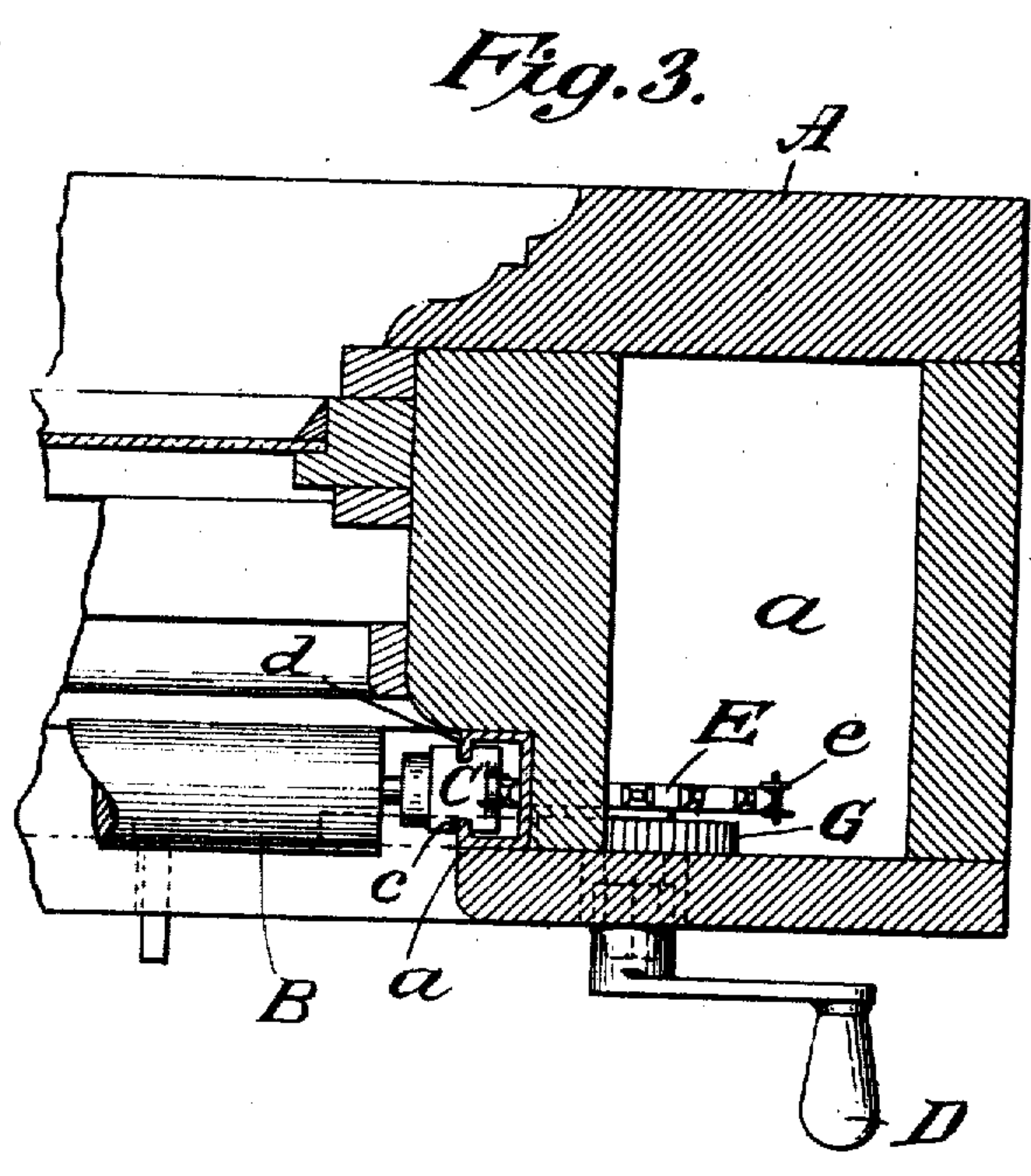
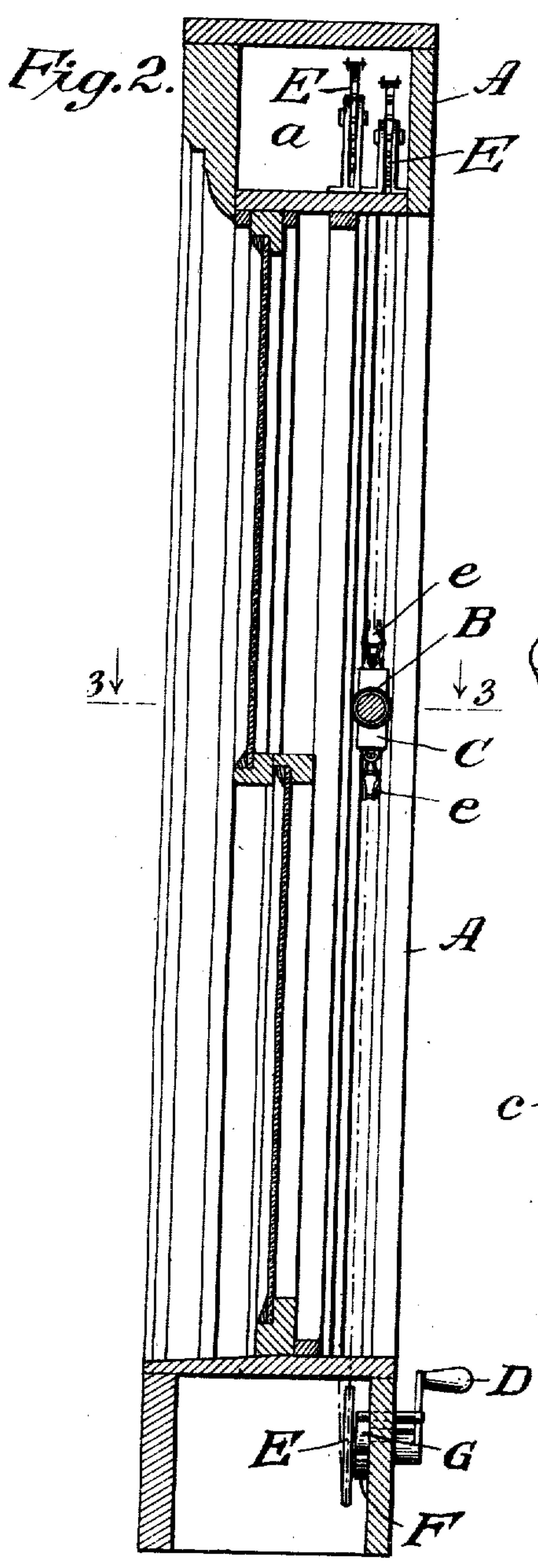


Attest:
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→ 2
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922,151.

Patented May 18, 1909.
 2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

GEORGE F. KELSEY, OF NEW YORK, N. Y.

MOVABLE SHADE-ROLLER.

No. 922,151.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed July 10, 1907. Serial No. 382,977.

To all whom it may concern:

Be it known that I, GEORGE F. KELSEY, a citizen of the United States of America, and a resident of New Brighton, Richmond borough, New York city, in the State of New York, have invented certain new and useful Improvements in Movable Shade-Rollers, of which the following is a specification.

The object of my invention is to provide a shade-roller which is movable vertically in the window-sash by suitable mechanism, without interfering with the unrolling of the shade, so that any desired portion of the window may be shaped; while the remainder, either above or below the shade, may be left free and uncovered. To accomplish this result, I mount the shade-roller upon suitable brackets, which, instead of being fastened to some part of the window-sash, as is usual, are adapted to slide vertically, and I provide suitable mechanism by which these brackets are moved vertically in unison, so as to stop at any desired height within the sash. It will be understood that, if it is desired to cover the lower half of the window, only, the roller is raised so as to stay about the middle of the sash; if the upper half, the roller is raised to the top of the sash; if the middle half, the roller is set at three quarters of the height; and so on, for any fraction of the window.

In the accompanying drawings, I have shown my invention as applied to a sash specially constructed with a view to said application, and in these drawings: Figure 1 is a front view, in elevation, partly broken away in section, of my invention, as applied to a specially constructed sash; Fig. 2 is a vertical section on the line 2—2, of Fig. 1; Fig. 3 is a horizontal section on the line 3—3, of Fig. 1; and Fig. 4 is a detail of a form of bracket adapted to this construction.

Referring, now, in detail to the drawings: A is the window-sash, which may be specially made with a view to receiving my movable shade-roller, and advantageously is provided, interiorly, with a chamber *a* for the weights and operating mechanism of the sash, and which is made double, or large enough to receive, also, the operating mechanism for the shade-roller.

B is the shade-roller.

C, C are the brackets of a type to be set within or between the sash-sides, and are provided with grooves *c*, *c*, which slide on tracks *d*, *d* of the sash-frame.

D is the removable handle or crank, by

which the mechanism is operated to raise or lower the shade-roller.

E, E are sprocket-wheels, suitably mounted upon the sash at convenient places and driven by the sprocket-chain *e*, which extends from the upper side of the bracket C over the entire series of wheels to the under side of the bracket. One of these wheels (preferably a lower one) is selected for the main or driving-wheel, and is driven by a ratchet F secured thereto, from a crank D. Pivotaly secured to the inner wall of chamber *a*, in proximity to said ratchet, is a dog or pawl G, provided with a right-angled extension D', working in an arc-slot *c'* cut through the wall of said chamber, and which pawl engages the ratchet F and normally prevents retrograde movement thereof and of the wheel to which said ratchet is secured. When reverse movement is desired to be given to said wheel (or to the left, viewing Fig. 1), the operator depresses extension D' and holds it with one hand, which releases the pawl from engagement with the ratchet F, and, with the other hand, turns the crank D to the left as much as desired, when, upon release of the extension D', the pawl will swing back into engagement with the ratchet to hold the same against retrograde movement.

The shade-roller is shown at the middle of the sash, and in that position the whole of the lower half of the window may be covered by unrolling the shade, or any part of this lower half from the bottom up may be left uncovered. By raising the roller toward the top of the sash, by turning the crank D, it becomes possible to cover a corresponding amount of the upper half of the window, and, by unrolling the shade as much or as little of the lower half as may be desired. It will thus be seen that my improved shade-roller makes it possible to cover the whole or either half of the window, as desired, or, while leaving both top and bottom uncovered, to cover a strip of desired width at any place between the top and bottom of the window.

I regard the housing of all the operating mechanism of my device, including the sprocket-wheels E, E, the ratchet F, and the pawl G, within the interior chamber *a* of the window-casing as one of the distinguishing features of my invention; for, thereby, advantageous results are obtained, as follows: Such parts are hidden from view and, thus, no unsightly protuberances or obstructions

are presented and which would tend to interfere with the proper hanging of, and which would be liable to injure or tear, the lace curtains customarily used on every window; in addition to the roller-shade; said operating parts are screened against access thereto and deposit thereon of dirt and dust; and said parts are also impossible of access thereto by meddlesome children, so that there is no danger of their tampering with said mechanism and breaking the same, or getting it out of order. Another distinguishing feature of my invention, going to make up the ultimate perfection of the whole, resides in the removable handle or crank D: thus, when the housekeeper adjusts the shade to the desired position, she can remove the handle, so as to obviate the vexation (if the handle were permanently affixed) of children playing therewith and running the shade up and down. Besides, the removal of the handle, when not in use, leaves nothing unsightly to the view.

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

1. The combination with a window-casing, having an interior chamber, of a shade-roller, and mechanism for raising and lowering said roller, and comprising, in part, a wheel located within said chamber, a ratchet secured thereto and also disposed within said chamber, means for rotating said wheel, the wall of said chamber having an arc-slot cut there-
through, and a pivoted pawl, also disposed

within said chamber and engaging said ratchet, and provided with a right-angled extension projecting through said slot.

2. The combination with a window-casing, having an interior chamber, of a shade-roller, and mechanism for raising and lowering said roller, and comprising, in part, a wheel located within said chamber, a ratchet secured thereto and also disposed within said chamber, a crank for rotating said wheel, the wall of said chamber having an arc-slot cut there-
through, and a pivoted pawl, also disposed within said chamber and engaging said ratchet, and provided with a right-angled extension projecting through said slot.

3. The combination with a window-casing, having an interior chamber, of a shade-roller, and mechanism for raising and lowering said roller, and comprising, in part, a wheel located within said chamber, a ratchet secured thereto and also disposed within said chamber, a removable crank for rotating said wheel, the wall of said chamber having an arc-slot cut therethrough, and a pivoted pawl, also disposed within said chamber and engaging said ratchet, and provided with a right-angled extension projecting through said slot.

Signed at New York city, this 9 day of July 1907.

GEORGE F. KELSEY.

Witnesses:

W. P. PREBLE, Jr.,
M. G. WESTERVELT.