(Model.)

S. KENNEDY.

SHUTTER WORKER.

No. 339,303. Patented Apr. 6, 1886.

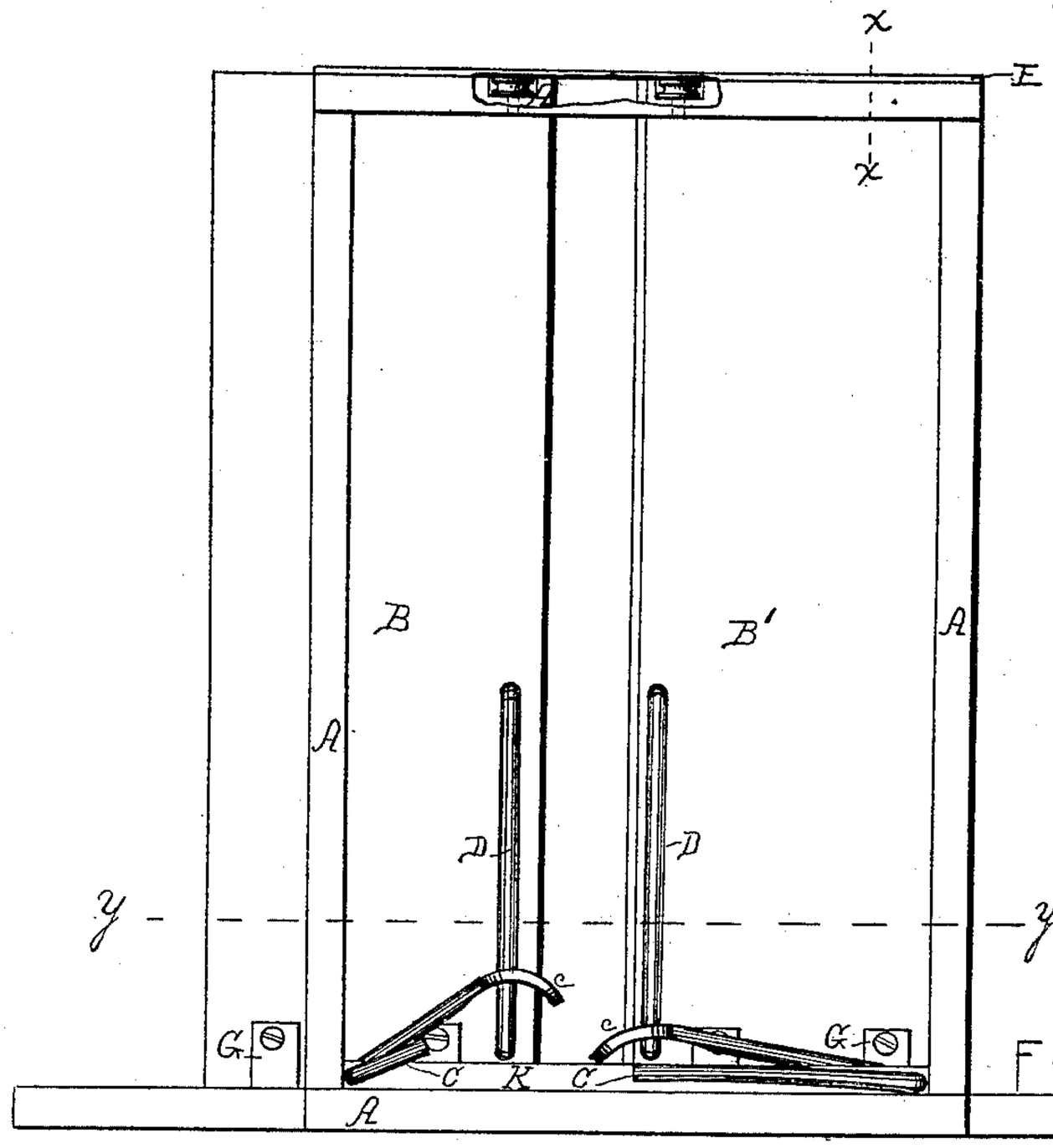

FIG-1-

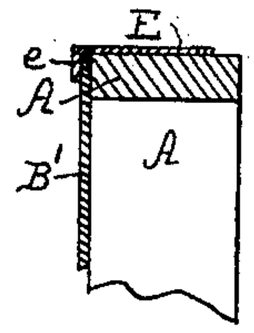

FIG-2-

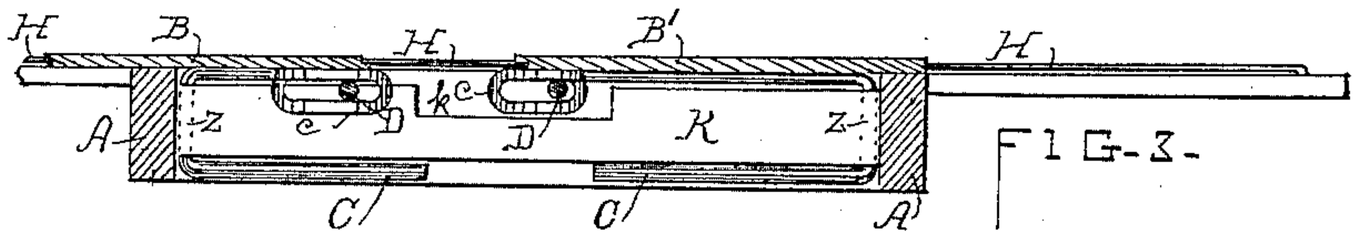

FIG-3-

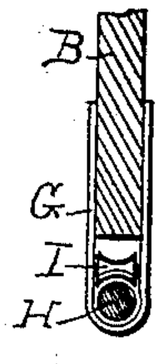

FIG-5-

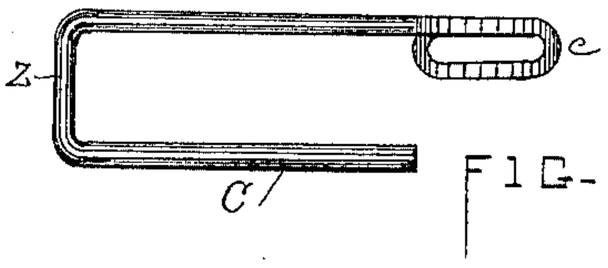

FIG-6-

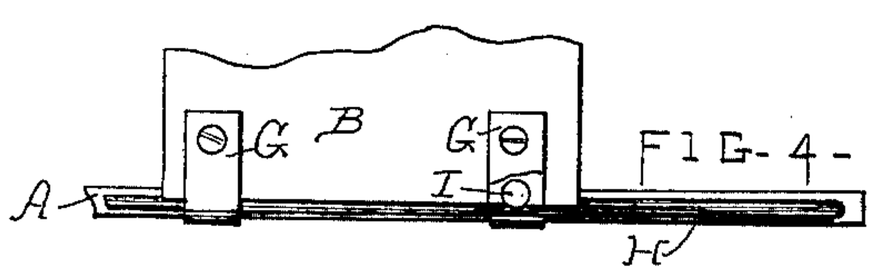

FIG-4-

WITNESSES-
Geo. A. Lane
Wm. R. Gerhart.

INVENTOR-
Sylvester Kennedy

UNITED STATES PATENT OFFICE.

SYLVESTER KENNEDY, OF GAP, PENNSYLVANIA.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 339,303, dated April 6, 1886.

Application filed July 7, 1885. Serial No. 170,868. (Model.)

To all whom it may concern:

Be it known that I, SYLVESTER KENNEDY, a citizen of the United States, residing at Gap, in the county of Lancaster and State of Pennsylvania, have invented a new and useful Improvement in Window Shutters and Fixings; and I do hereby declare that the following is a full, clear, and exact description thereof, as set forth in the annexed specification and accompanying drawings and lettering explaining the same.

My invention relates to an improved method for opening and closing shutters, in which the shutters, resting upon a bearing-rod, are moved to and fro by means of hand-levers; and the object of my improvement is to operate the shutters from the inside of the room without opening the window. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical inside view of the device with the shutter B partly open; Fig. 2, a vertical section through *x x* of Fig. 1; Fig. 3, a horizontal section through *y y* of Fig. 1; Fig. 4, an outside vertical view of a portion of the lower part of the device; Fig. 5, a side view of the staple connecting the shutter and the bearing-rod, and Fig. 6 a top view of the lever.

Similar letters refer to similar parts throughout the several views.

The frame A is of the usual construction. On the outside of the lower sill there is secured a horizontal bearing-rod, H, which supports the shutters B B′. The bottoms of the shutters are provided with rollers I, having concave peripheries, which rest upon the rod H, and these rollers are prevented from becoming disengaged from the rod by means of staples G, which embrace said rod and are secured to the sides of the lower edges of the shutters.

To protect the upper edges of the shutters from the weather and hold them in position, there is a plate, E, fastened to the top of the frame, which covers the shutters, having a flange, *e*, embracing said upper edges. The weather-plate K, under the sash, is provided with openings at either end, which serve as the fulcrums Z for the hand-levers C. These levers, serving as the means by which the shutters are actuated, have their inner arms running along the inside of the sash toward the center thereof when the shutters are closed, while the outer arms extend toward the inner edges of the shutters, and by means of slots *c* in their ends engage long vertical staples D there secured in the shutters. The ends of the lever-arms, which engage the staples D, are curved somewhat downward in order to give a better bearing for the ends of the slot *c* against the staple.

From the foregoing description the operation of my device will be readily understood. The raising of the hand-lever by means of the outer arm and the staple D pushes the shutter open, while the reverse movement closes it.

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

The shutters B B′, having the rollers I and staples D, and connected with the bearing-rod H by means of the staples G and the said rod H, in combination with the actuating-levers C, having their fulcrums in the weather-plate K, all constructed and operating substantially as herein set forth.

SYLVESTER KENNEDY.

Witnesses:
GEO. MCNABB,
KATE K. MCNABB.