

(No Model.)

J. G. WILSON.

WINDOW FRAME.

No. 390,423.

Patented Oct. 2, 1888.

Fig. 1.

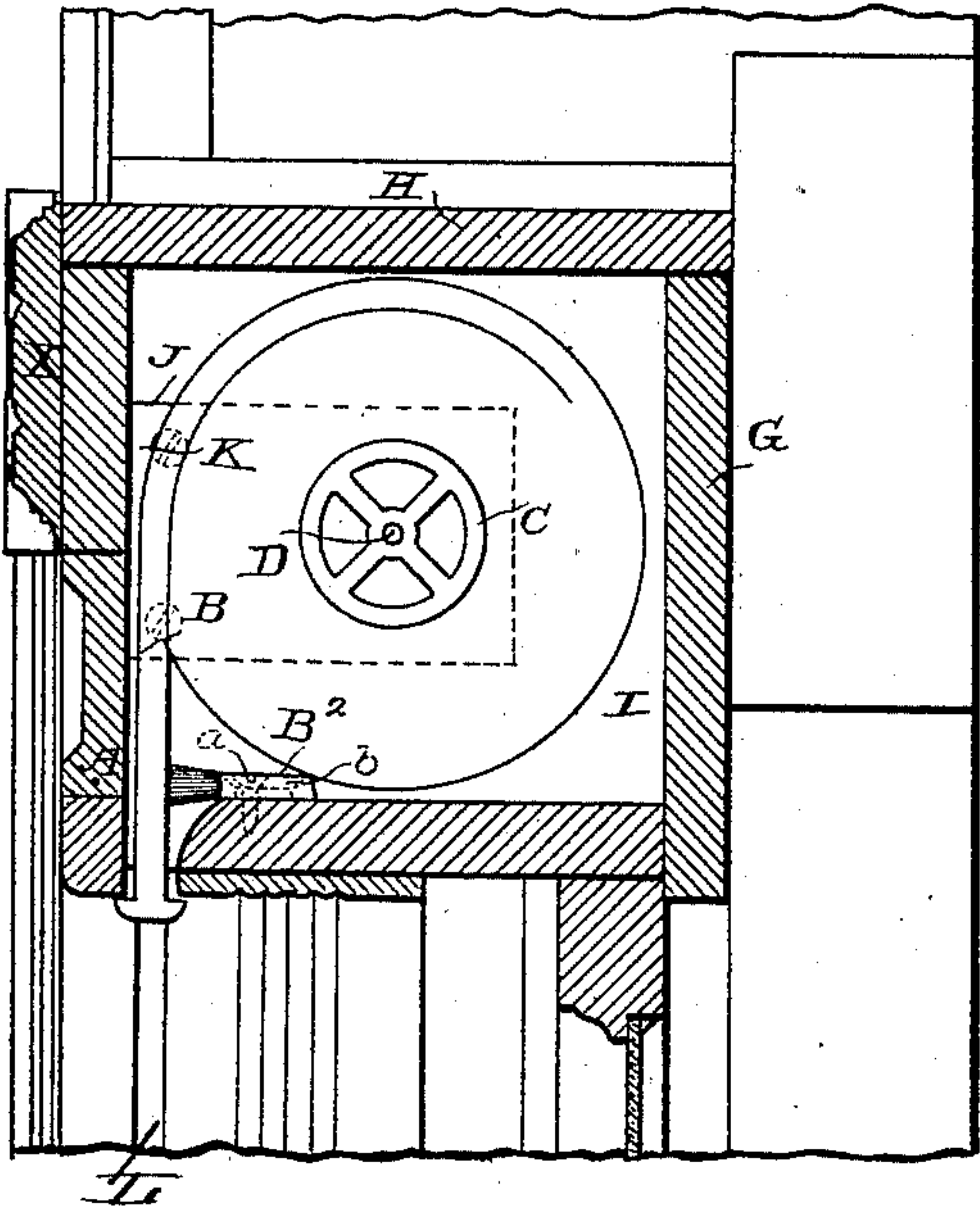


Fig. 2.

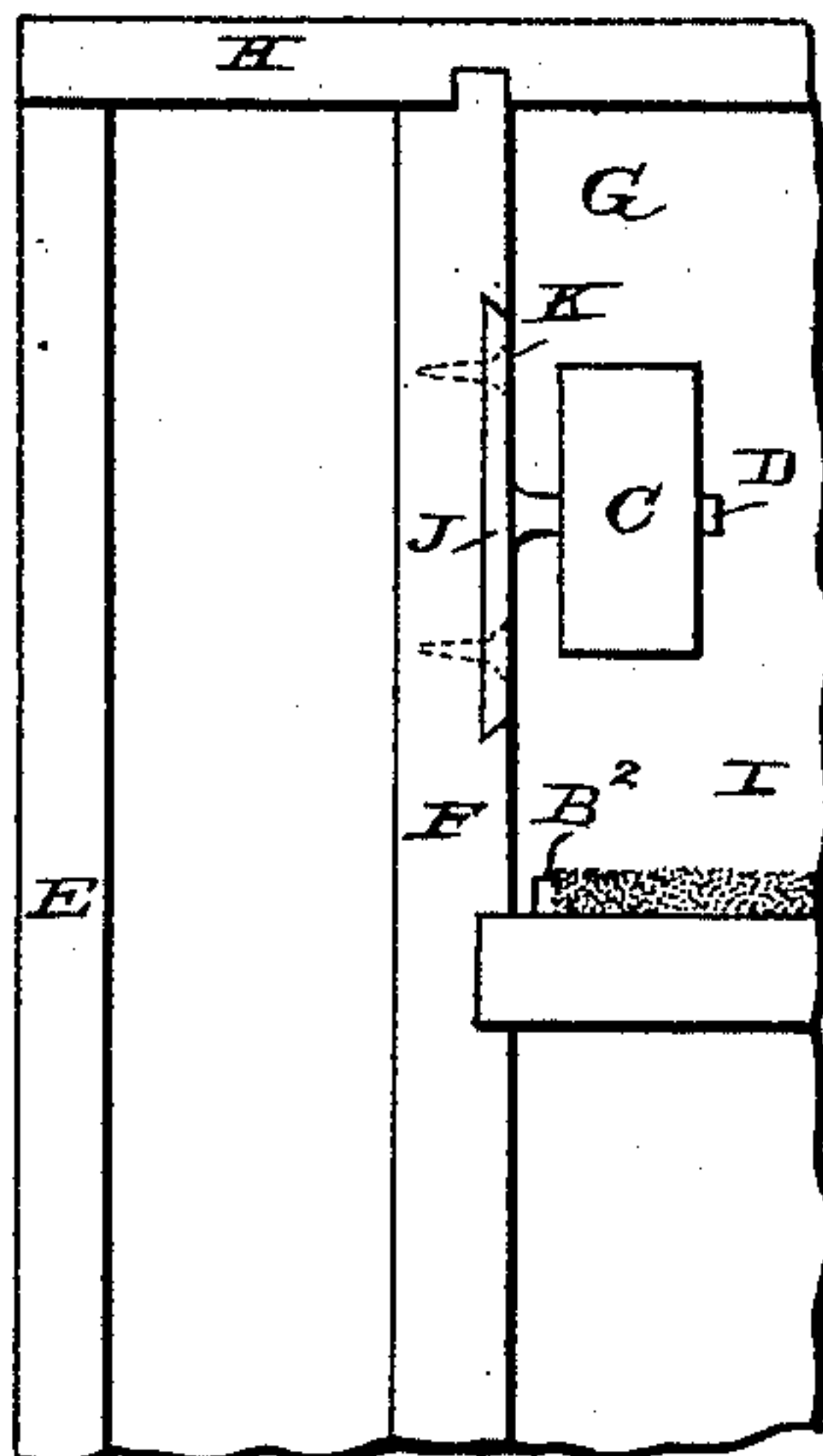


Fig. 4.

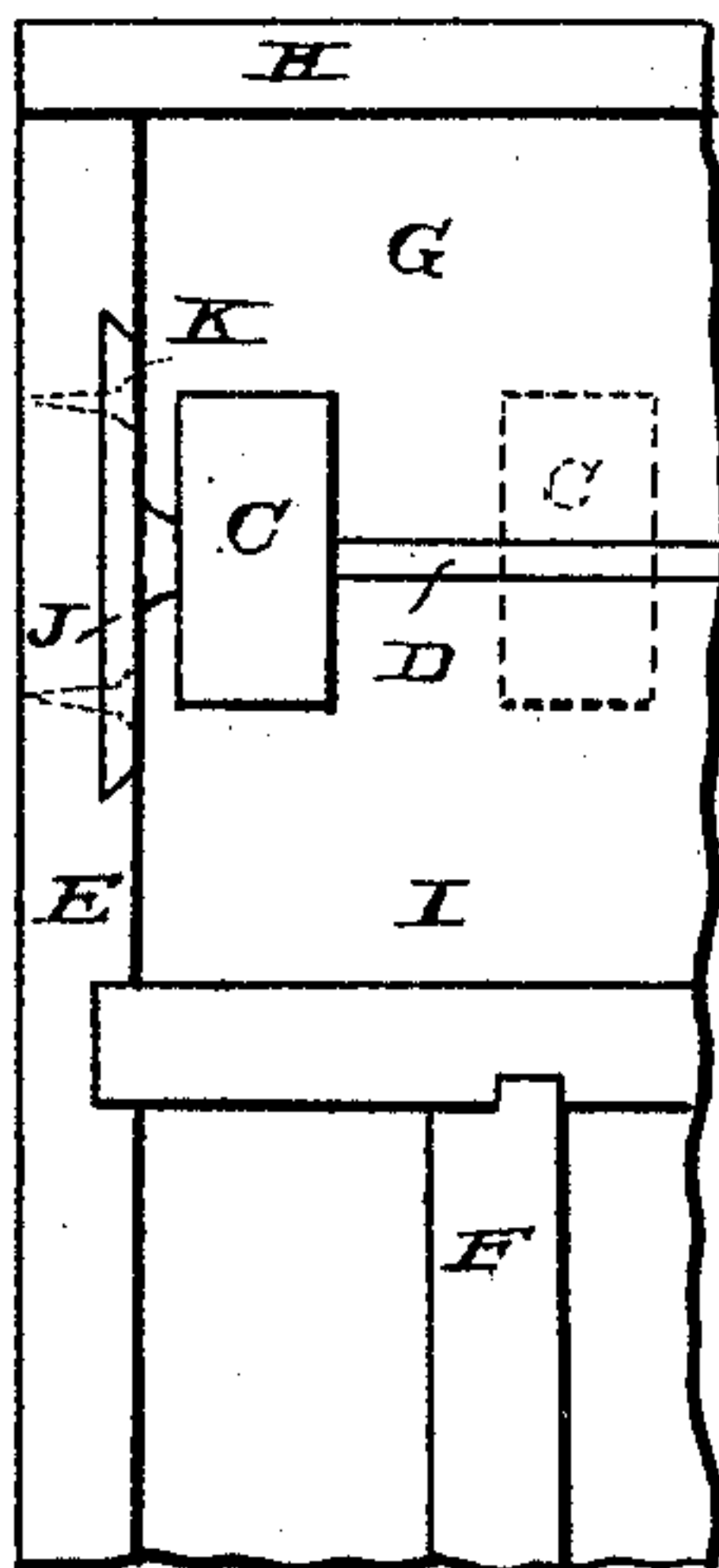


Fig. 3.

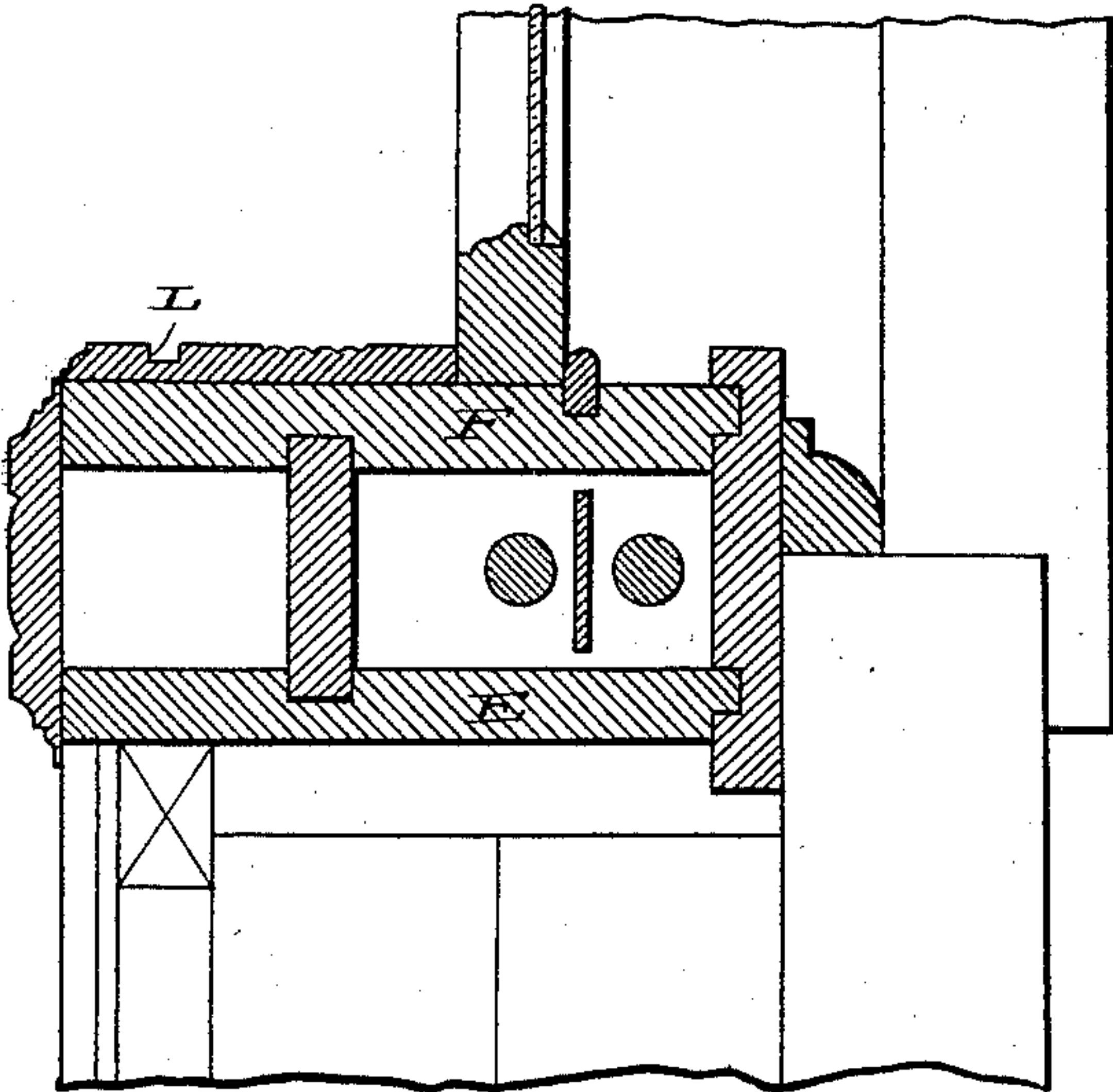
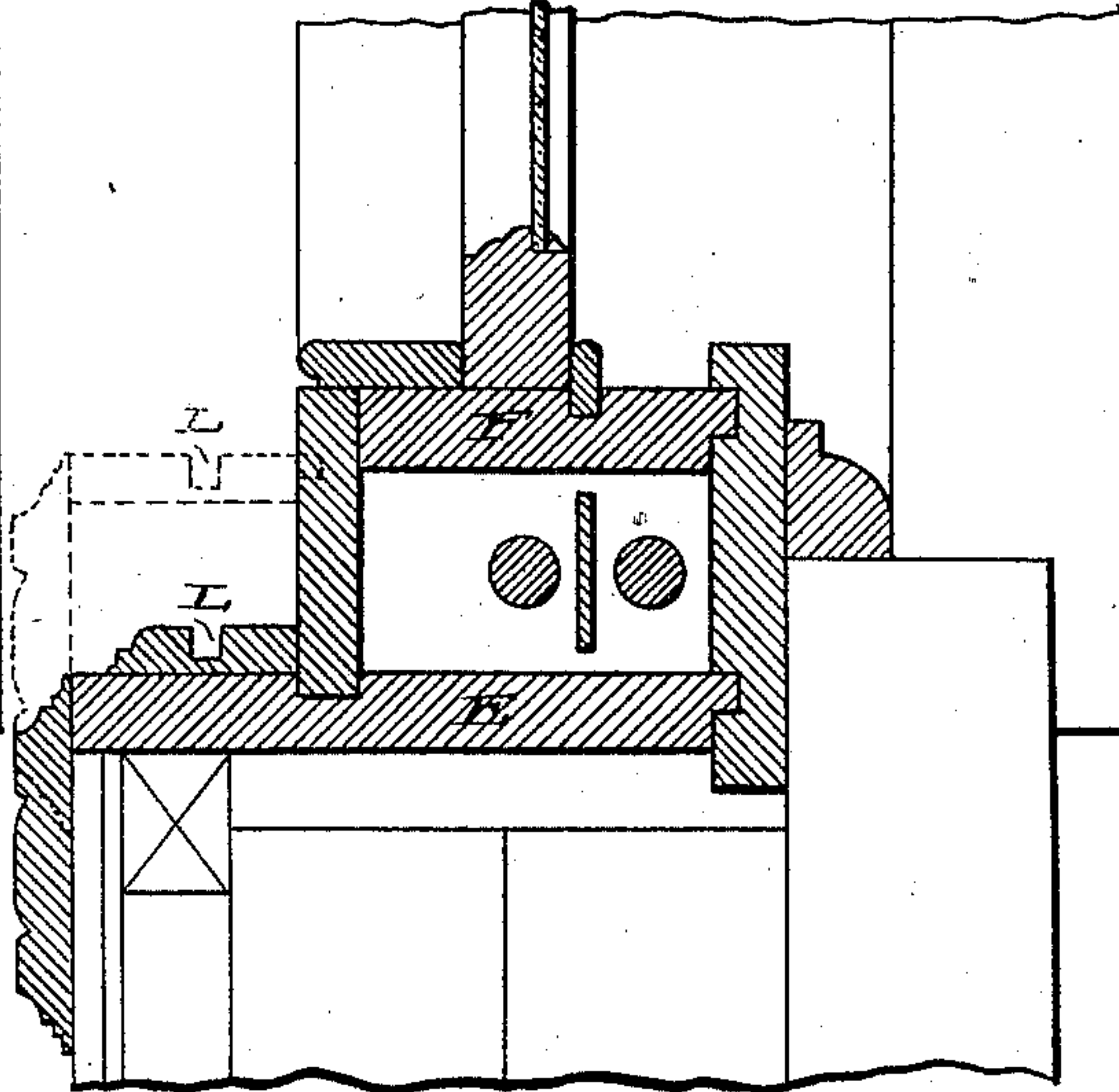


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 390,423, dated October 2, 1888.

Application filed February 21, 1887. Serial No. 228,385. (No model.)

To all whom it may concern:

Be it known that I, JAMES G. WILSON, a subject of the Queen of Great Britain, and a resident of the city of New York, in the State of New York, have invented a new and useful Improvement in Window-Frames, of which the following is a specification.

My improved frame comprises a coil-box overhead, which is formed by extending the pulley-stiles or back linings, preferably the pulley-stiles, above the sash within a head-casing having a removable front panel and tightly closed at top and back, formed of wood or sheet-iron, so as to inclose the coil of the blind. The coil and the roller shafts or bearings are thus kept free from dirt, &c., while the pulley-stile or back-lining extensions form true and strong supports for the blind.

To simplify and cheapen the operation of hanging the blind, I provide the inner faces of said extensions of the pulley-stiles or back linings with recesses or ways extending inward from the front of the head-casing and fit them with end slides, to which, as in casting the latter, the roller-shafts or their bearings are conveniently attached, so that the shafts become properly located when the slides are in position within the ways.

Another object of this invention is to keep the outer face of the blind clean. This has always been difficult of accomplishment. For this purpose I provide the coil-box with a brush in contact with the outer surface of the blind, and preferably adapt the brush to be adjusted toward the blind as the brush becomes worn down by use.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of these drawings represents a vertical section of the upper portion of a window-frame provided with my coil-box, end slides, and brush. Fig. 2 represents a front elevation of the same with the front of the frame removed. Fig. 3 represents a horizontal section or plan of the same frame. Fig. 4 represents a front view similar to Fig. 2, showing a modified frame; and Fig. 5 represents a plan of the latter.

Like letters of reference indicate corresponding parts in all the figures.

A, Fig. 1, represents a removable front panel

in a head-casing, X, common to both frames, and B a rolling blind fitted to the window. C, Figs. 1 and 2 or Fig. 4, represents one of the "spring-rollers" of the blind; and D, a non-rotary "roller-shaft." E F in each of the figures represent a back lining and a pulley-stile respectively, and G H, Figs. 1 and 2 or Fig. 4, represent fixed back and top pieces, respectively, to complete the coil-box I, to the interior of which access is had at all times by means of said removable panel A, Fig. 1.

J, Figs. 1 and 2 or Fig. 4, represents recessed ways in the end of the coil-box, and K slides fitted thereto and having the roller-shafts D or their bearings attached thereto, and L, Fig. 3 or 5, represents the runways or grooves at the sides of the window, in which the lateral edges of the blind B work.

The slides K in each arrangement locate the shaft or shafts D within the coil-box I, as aforesaid, so as to render the same central, horizontal, and true, and through the medium thereof the pulley-stile or back-lining extensions solidly support the shaft or shafts, as aforesaid. Dovetailed, as shown in Figs. 2 and 4, they are self-attached to said extensions; but this shape is not considered essential.

In the improved window-frame represented by Figs. 1, 2, and 3 the ends of the coil-box I are formed by extending the pulley-stiles F upward about nine inches, and the ways J are plowed in their inner sides, which is the preferred arrangement, and the spring-rollers C are mounted on stud-shafts D, attached to the respective end slides. A brush, B², is fastened by screws a to the floor of this coil-box, and slotted, as shown at b, Fig. 1, so that the brush may be adjusted toward the back of the blind, from which it automatically removes dust and dirt as the blind is raised and lowered, and thus keeps the blind clean, as aforesaid. The length of the brush, it will be understood, is equal to the width of the blind. It may be composed of two or more sections, if preferred.

In the modification represented by Figs. 4 and 5 the ends of the coil-box I are formed by extending the back linings, E, above the sash, the movable panel A and back and top pieces G H being attached thereto and said ways J formed therein. The spring-roller C is shown in different positions by full and

dotted lines in Fig. 4, corresponding with different positions of the runways or grooves L, (represented in like manner in Fig. 5.) Such spring-rollers or spring-barrels are placed
5 along the non-rotary shaft D, so as to be properly located with reference to the lateral edges of the blind. In this arrangement a single shaft D extends from end to end of the coil-box, and is supported at its extremities in
10 bearings or square sockets attached to the respective end slides, K. (See Fig. 4.)

Other parts of the window-frame, together with the rolling blind, may be of ordinary construction.

15 Having thus described my said improvement in window-frames, I claim as my invention and desire to patent under this specification—

1. A window-frame having integral parts
20 thereof extended upward to form the ends of a coil-box above the frame-head and provided with recesses or ways extending inward from the front of the head-casing, in combination with end slides fitted to said ways, and the
25 non-rotary shaft or shafts of a rolling blind

supported by said slides, substantially as herein specified.

2. A window-frame having integral parts thereof extended upward to form the ends of a coil-box and recessed to form dovetailed
30 ways, in combination with end slides fitted to these ways as supports for the ends of the roller-shaft, substantially as herein specified.

3. In combination with a window-frame having a coil-box above its head and a rolling
35 blind coiled within said box, a brush fastened to the head of the frame in contact with the outer surface of the blind, substantially as herein specified.

4. In combination with a window-frame hav-
40 ing a coil-box and a rolling blind coiled within said box, a brush fastened within said box in contact with the outer surface of the blind and provided with adjusting devices for tak-
45 ing up wear, substantially as herein specified.

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Witnesses:

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