

No. 610,384.

Patented Sept. 6, 1898.

E. T. BURROWES.

WINDOW SCREEN.

(Application filed Dec. 28, 1897.)

(No Model.)

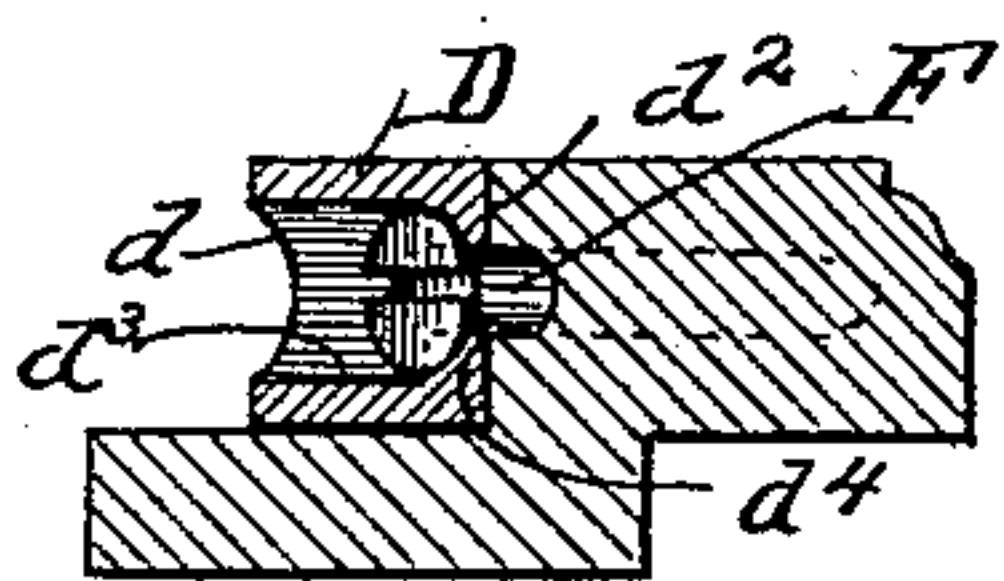
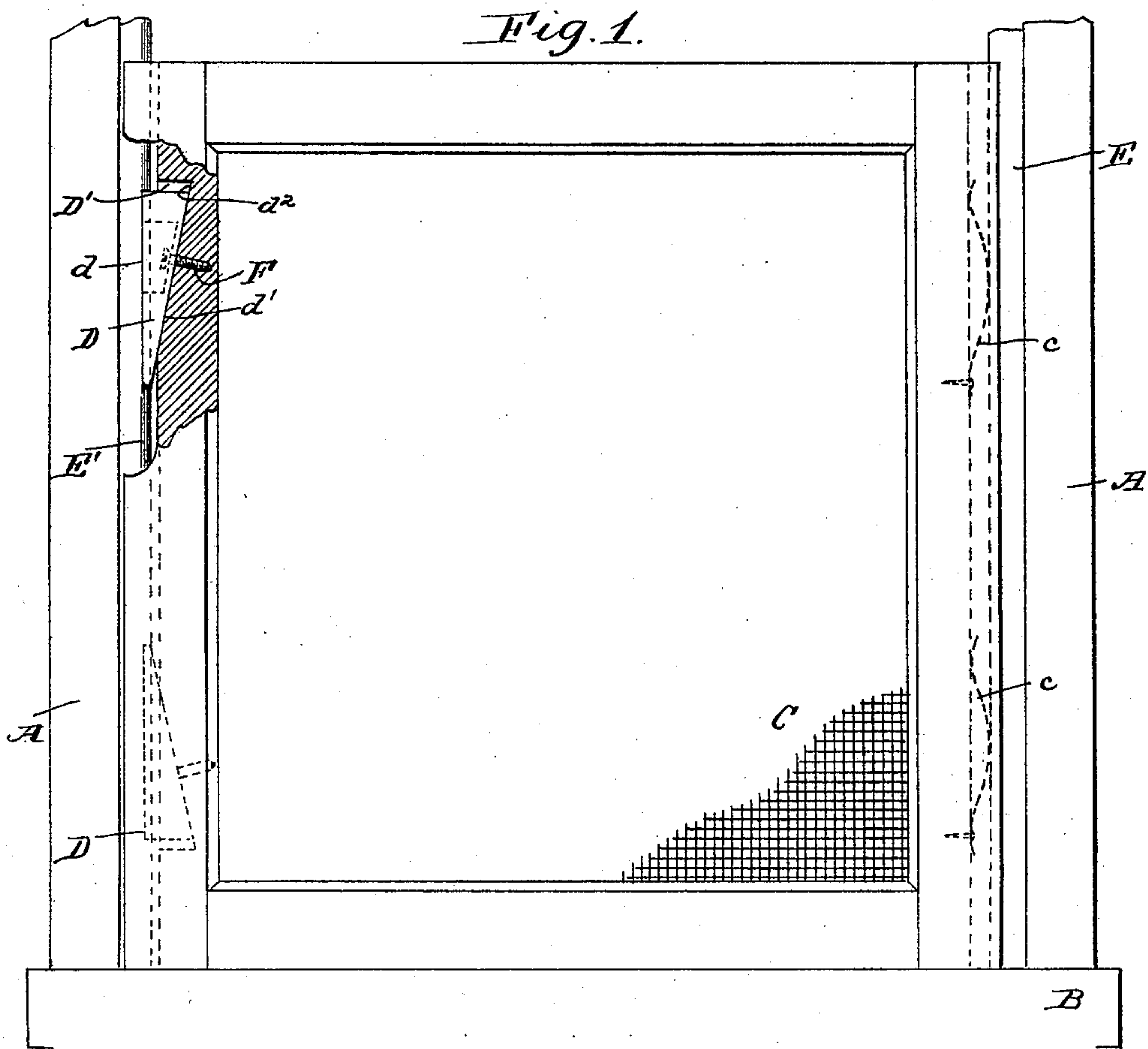


Fig. 3.

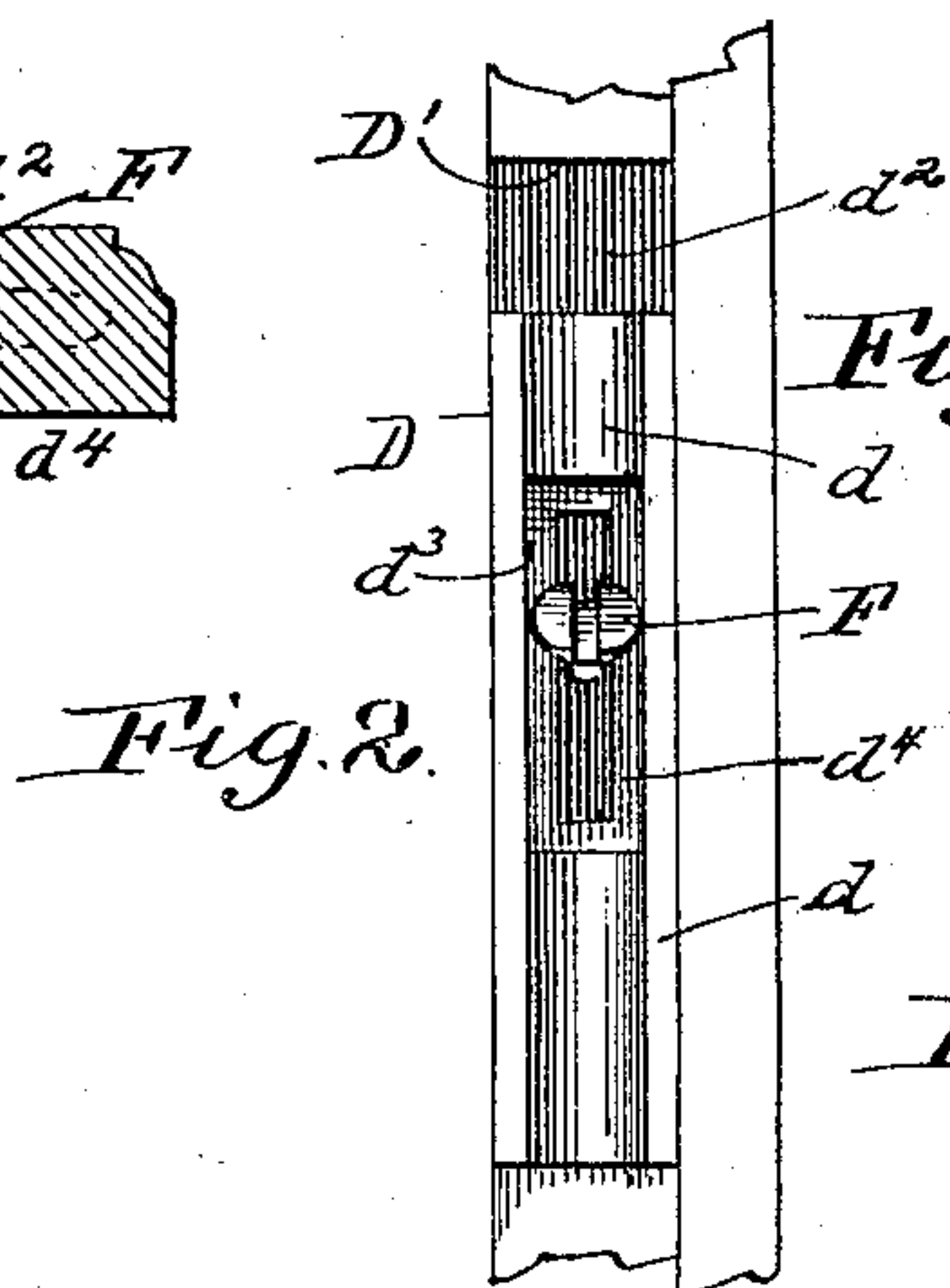


Fig. 2.

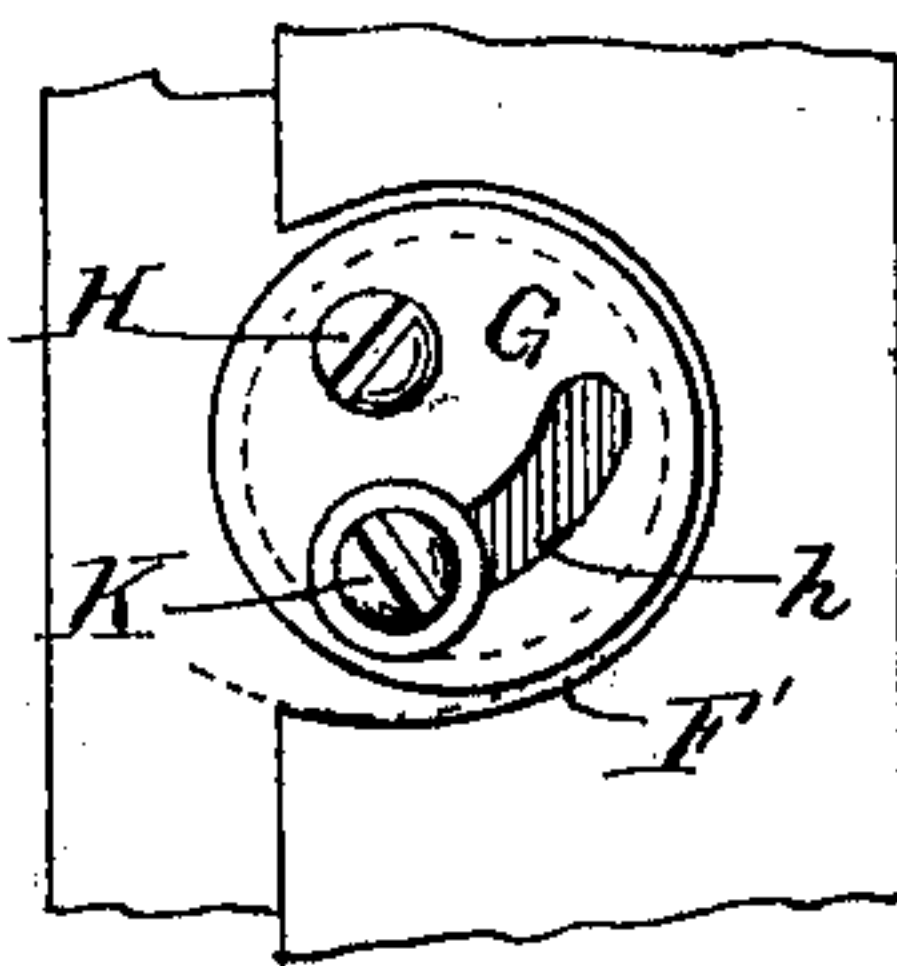


Fig. 4.

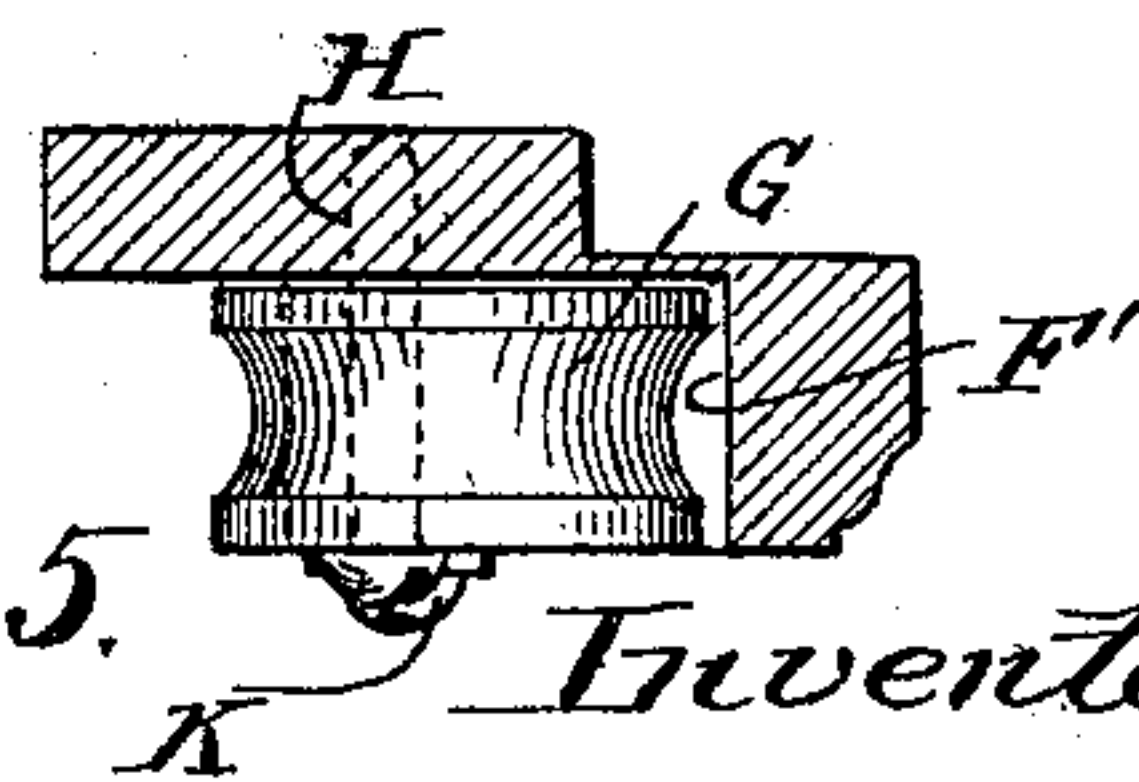


Fig. 5.

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UNITED STATES PATENT OFFICE.

EDWARD T. BURROWES, OF PORTLAND, MAINE.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 610,384, dated September 6, 1898.

Application filed December 28, 1897. Serial No. 663,978. (No model.)

To all whom it may concern:

Be it known that I, EDWARD T. BURROWES, a citizen of the United States, residing at Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Window-Screens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improvement in window-screens, and more particularly to that class known as "sliding" screens.

In fitting and adjusting screens to window-frames it is frequently found that the latter is not perfectly square and more or less irregular, which necessitates planing or cutting down the edges of the screen-frame to secure the requisite fit. When the window-frame is not perfectly square, the rigid square frame of the screen will not lie sufficiently close to the jamb or sill at all points to exclude insects. In view of this fact manufacturers usually construct the screens somewhat larger than is necessary, so as to allow for this after planing off for fitting. When a finished painted screen is planed off, the wood is left exposed to the elements and soon deteriorates unless repainted.

The object of the invention is to provide a structure which will avoid the necessity of cutting the frame or marring the paint when it is necessary to adjust or fit it to a window-frame and to also avoid the necessity of repainting or finishing the same.

The invention is embodied in the construction and arrangement of parts hereinafter described, and defined in the claims.

In the accompanying drawings, wherein like letters of reference designate corresponding parts in the several views, Figure 1 is an elevation of a window frame and screen, showing a part of the latter broken away. Fig. 2 is a detail edge view of an applied justifying device. Fig. 3 is a cross-section on the line 3 3 of Fig. 2. Fig. 4 is an elevation of a modified form of justifying device, and Fig. 5 is an edge view of the construction shown in Fig. 4.

In the drawings is shown a sliding screen

of that type known as "edgewise-movable" screens.

A designates the jambs, B the sill, and C the screen. In one edge of the latter is formed a deep groove, in which are secured the usual abutment-springs *c*, normally resting against the vertical bead or track E. On the opposite edge of the screen-frame are secured the justifying devices D, which in the present instance consist of substantially triangular blocks having straight outer concave faces *d*, in which the bead or track E' rests. The under face of the shoe or justifier D is inclined, as at *d'*, and rests on an inclined bottom *d*² of a recess D', formed in the edge of the screen-frame. The shoe is formed with a recess *d*³, entering from its outer face and extending to a point near the bottom. The lower wall of this recess *d*³ is inclined to correspond with the bottom of the shoe, and it has an oblong slot *d*⁴ cut therethrough of a width less than that of the recess *d*³. Passing through the slot *d*⁴ is a securing or set screw F, the head of which rests within the recess *d*³ and against the bottom thereof at the sides of the groove *d*⁴.

The screw F is forced into the molding of the frame at an angle so that the under face of the head will rest firmly against the bottom wall of the recess *d*³. By loosening the screw F the block or shoe can be moved longitudinally up or down the inclined wall of the molding-recess, and when in its adjusted position the screw can be tightened, thereby locking the shoe in place. Therefore if the window-frame should not be square the screen can be quickly justified by adjusting and setting the shoes, edgewise movement being permitted by the abutment-springs, and a close fit be secured without cutting or marring the screen-frame.

In Figs. 4 and 5 I have shown a modification of the inclined form, and it consists, essentially, of a circular shoe G, located in a recess F', formed in the side of the molding. This shoe has a concaved periphery or bead-engaging surface and is eccentrically mounted on a pin H, secured to the molding. *h* is a curved elongated slot formed through the shoe G concentric with the pivotal point thereof. Passing through this slot *h* is a set-

screw K, having a suitable washer thereon resting against the surface of the shoe. By turning the shoe on its eccentric pivot it is forced out from the containing-recess more
5 or less, as occasion demands, and when so adjusted it is secured in place by the set-screw.

It is obvious that various changes in the constructions shown and described can be made and substituted therefor without de-
10 parting from the nature and principle of the invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

15 1. In a window-screen, the combination with the screen-frame, of independent justifying devices at the edge thereof consisting of outwardly-movable shoes having elongated openings therein and set-screws passing
20 through the openings for locking the shoes in their adjusted positions, substantially as described.

25 2. In a window-screen, the combination with its frame, of independent justifying devices at the edge of the frame, consisting of

movable shoes having elongated slots therein, and set-screws passing through the slots into the frame for securing and locking the shoes in their adjusted positions, substantially as described.

30 3. In a window-screen, the combination with the frame, of a justifying device for the screen consisting of a transversely and longitudinally movable shoe secured to the frame, means for positively locking the shoe in its
35 adjusted position, and abutment-springs on the opposite side of the frame, substantially as described.

4. A justifying-shoe for window-screens consisting of a block having an inclined in-
40 ner edge, and an elongated longitudinal slot, and a securing device passing through the slot for positively locking the block in its adjusted position, substantially as described.

In testimony whereof I affix my signature
45 in presence of two witnesses.

EDWARD T. BURROWES.

Witnesses:

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