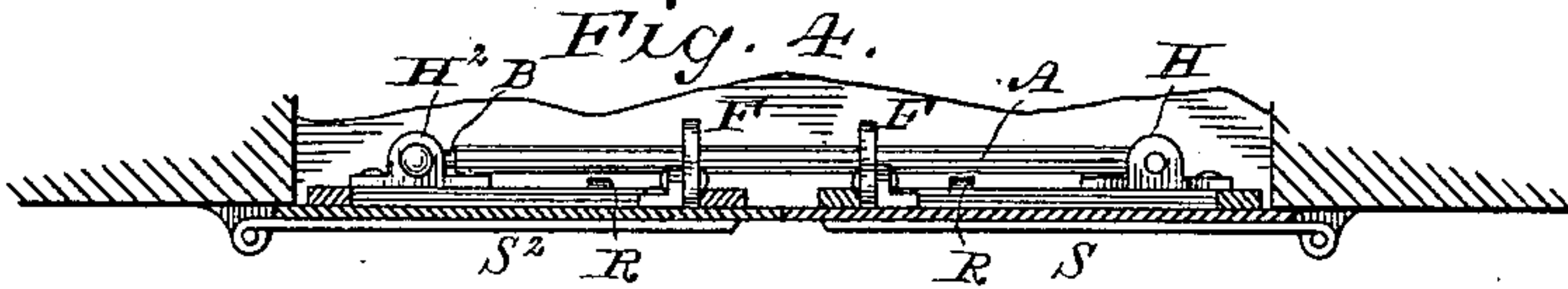
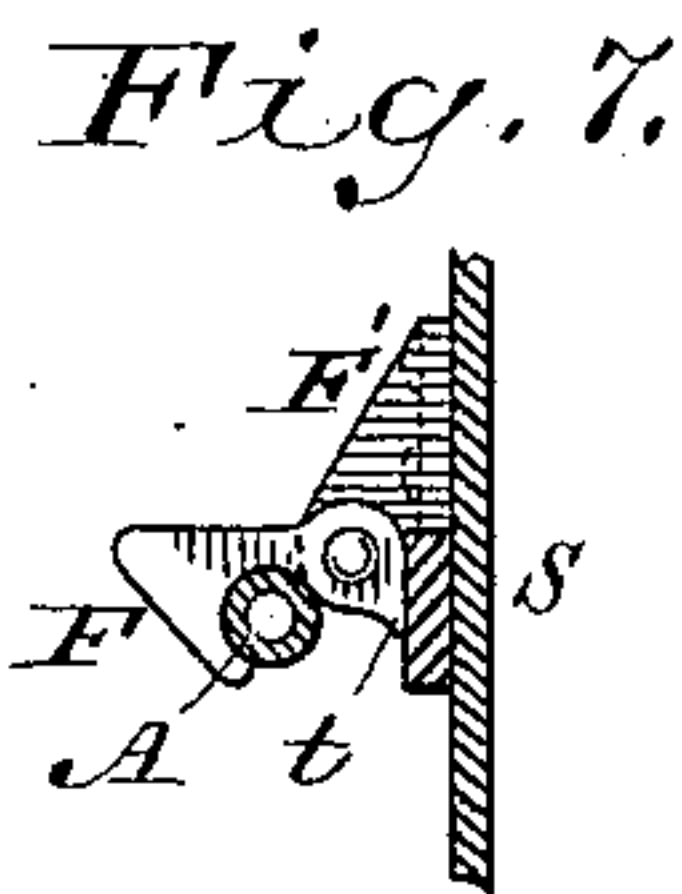
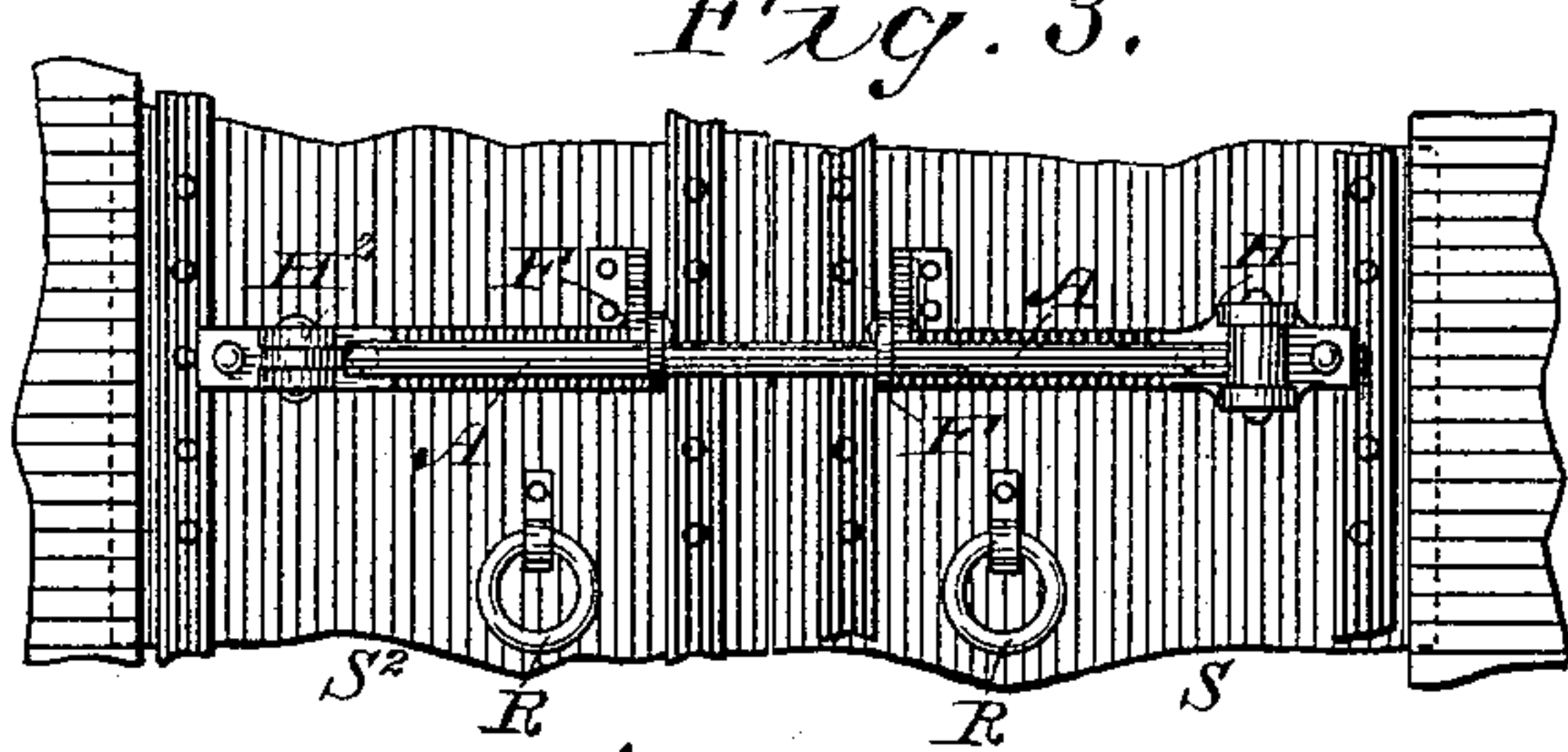
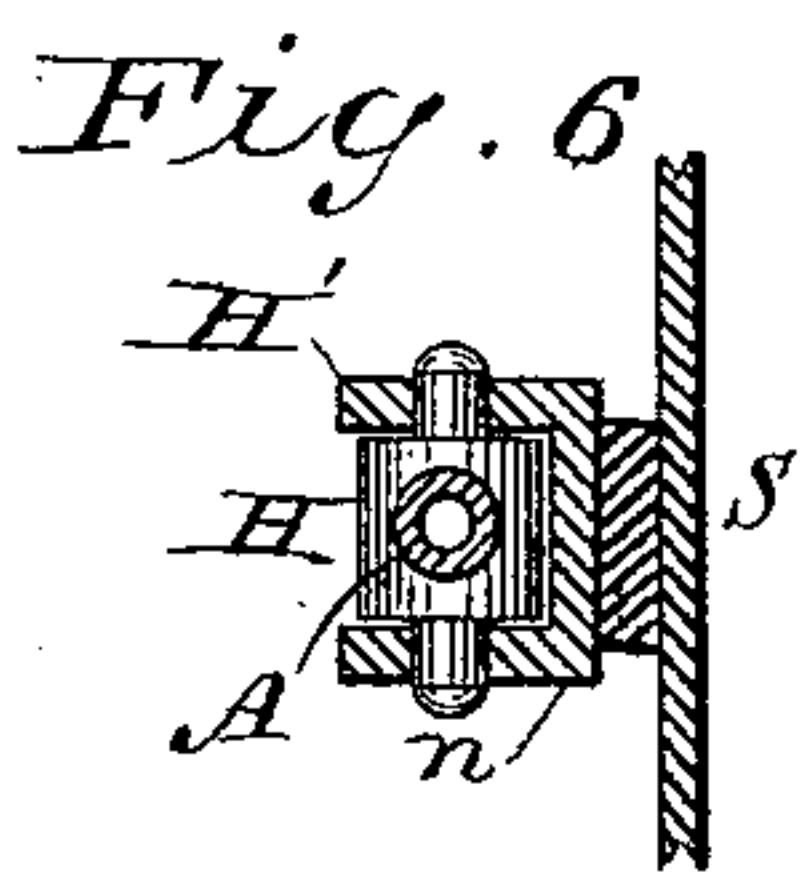
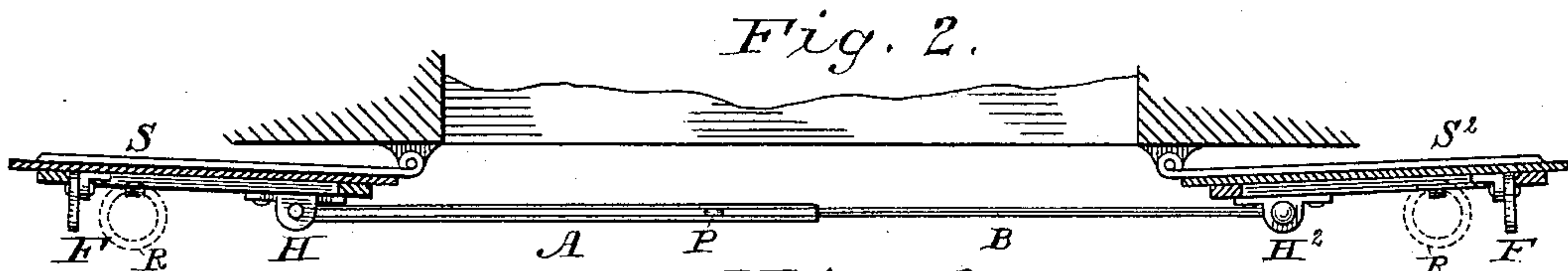
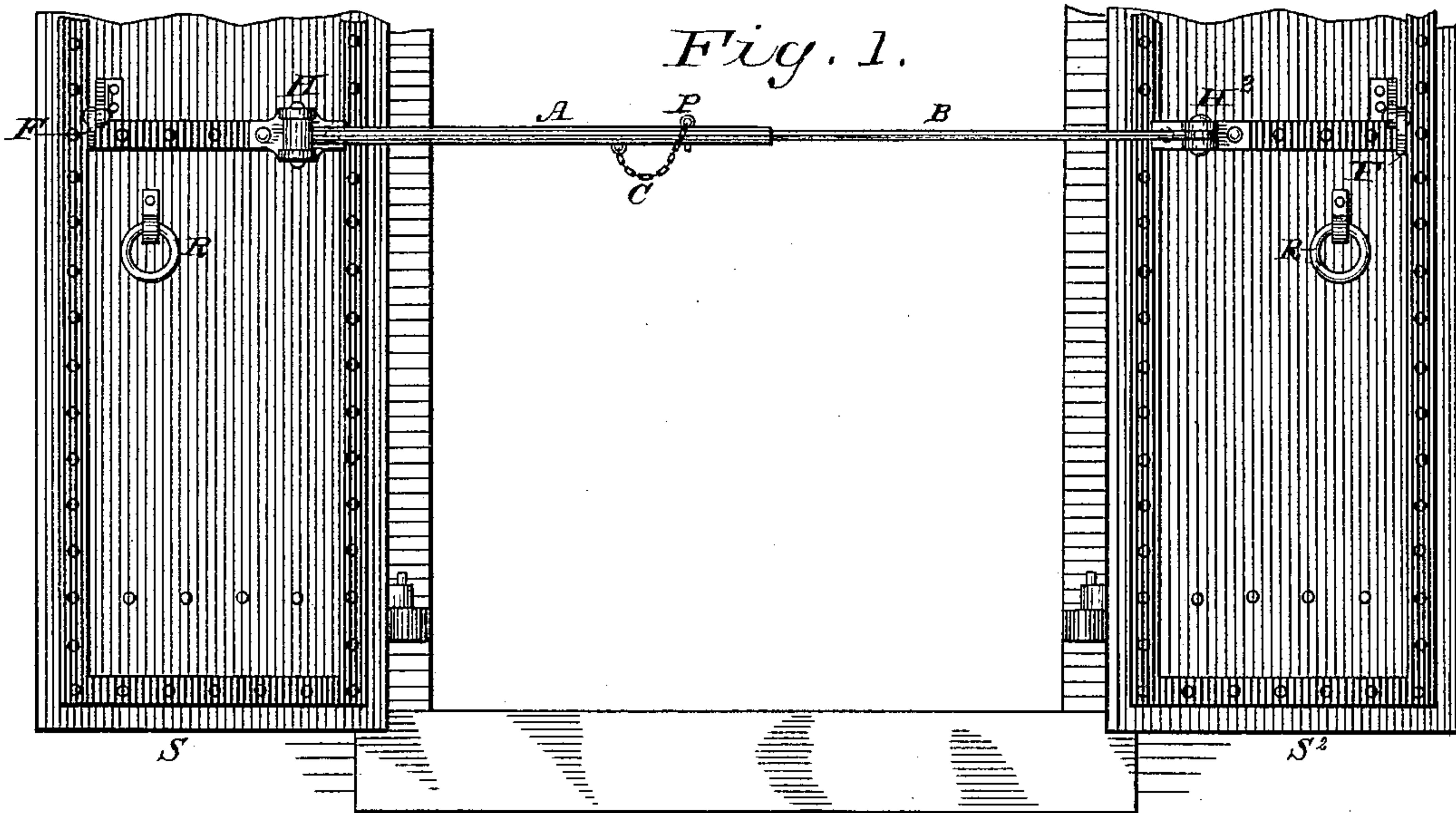


(No Model.)

J. M. CORNELL.
SHUTTER FASTENER.

No. 386,423.

Patented July 17, 1888.



Witnesses

C. M. Newman,
At. C. Newman,

Inventor,

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Wm. L. Ewen.

UNITED STATES PATENT OFFICE.

JOHN M. CORNELL, OF NEW YORK, N. Y.

SHUTTER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 386,423, dated July 17, 1888.

Application filed February 15, 1888. Serial No. 264,103. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. CORNELL, a citizen of the United States, and a resident of New York, in the State of New York, have invented a new and useful Improvement in Securing Devices for Shutters, of which the following is a specification.

This invention relates to "shutter-holders" or securing devices for shutters, and its objects are to hold the shutters open at will by a simple and secure device, which is easy of access from inside, and is wholly carried by the shutters themselves, and by the same means in part to securely fasten the shutters when closed.

The invention consists in certain novel combinations of parts, as hereinafter set forth and claimed.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of these drawings is a face view of a pair of iron shutters held open by my securing device. Fig. 2 is a plan view of the same with the shutters themselves in section. Fig. 3 represents a back view or view of the inside, showing the shutters held closed by said device. Fig. 4 is a plan view of the same, as seen in Fig. 3, with the shutters themselves in section. Fig. 5 represents a longitudinal section of the telescopic attachment, as seen in Figs. 1 and 2, on a larger scale; and Figs. 6 and 7 represent cross-sections of the same, as seen in Fig. 3, on the same scale as Fig. 5.

Like letters refer to like parts in all the figures.

To a pair of shutters, $S S^2$, I attach by suitable hinges, $H H^2$, the respective parts $A B$, hereinafter termed the "tube" and "rod" of a telescopic attachment, which, in connection therewith and with a simple loose pin, P , hold the shutters open, as shown in Figs. 1 and 2, while said pin occupies a hole, h , Fig. 5, in the tube A , where it obstructs the telescoping action.

Upon withdrawing the pin P the shutters $S S^2$ are free to close, in which act the attachment $A B$ "telescopes." A ring, R , attached to each shutter, facilitates closing them. When the shutters are closed, the tube A crosses the vertical mid-joint of the shutter at right angles thereto, with the rod B within it, as shown in Figs. 3 and 4. To engage therewith for holding the shutters closed, a fast-

ening-hook, F , is attached to each shutter near its free edge and engages with the tube A , as best seen in Fig. 7. Said hooks F are pivoted to angle-brackets F' , Fig. 7, securely riveted to the respective shutters. A toe, t , Fig. 7, on each hook coacts with a relatively fixed part to support the hooks, so that they will engage automatically with the tube A .

The hinges $H H^2$ are securely riveted to the shutters at mid-length and near their hinge edges. Said hinge H is preferably formed by a nut, n , Figs. 5 and 6, trunnioned in a housing, H' , one end of the tube A , which is of gas-pipe, being screwed into said nut, as shown in Fig. 5. The other hinge, H^2 , comprises an eye formed on one end of the rod B , and is of ordinary construction, as clearly shown in Fig. 5. A chain, C , Fig. 1, may loosely attach the pin P to the tube A .

Other details which have not been specified may be of any approved description, and I do not limit my respective claims to details of construction, except as therein expressly stated.

I do not claim, broadly, a "telescopic" shutter-holder, nor fastening devices on the shutters themselves, in combination with a holding device which closes against the inside of hinged shutters across their vertical mid-joint; but,

Having thus described my said improvement in securing devices for shutters, I claim as my invention and desire to patent under this specification—

1. The combination, with the hinged shutters $S S^2$, of the tube A and rod B , hinged to the respective shutters near their hinge-edges and movable in the same horizontal plane, and the gravitating fastening-hooks F , having stop-toes t and hinged to the shutters near their free edges and movable vertically, said hooks embracing said tube when the shutters are closed, substantially as hereinbefore specified.

2. In combination with the shutters $S S^2$, tube A , and rod B , the hinges $H H^2$, said hinge H being composed of a nut, n , trunnioned in a housing, H' , with one end of the tube A screwed into the nut, substantially as hereinbefore specified.

JOHN M. CORNELL.

Witnesses:

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H. C. TUNIS.