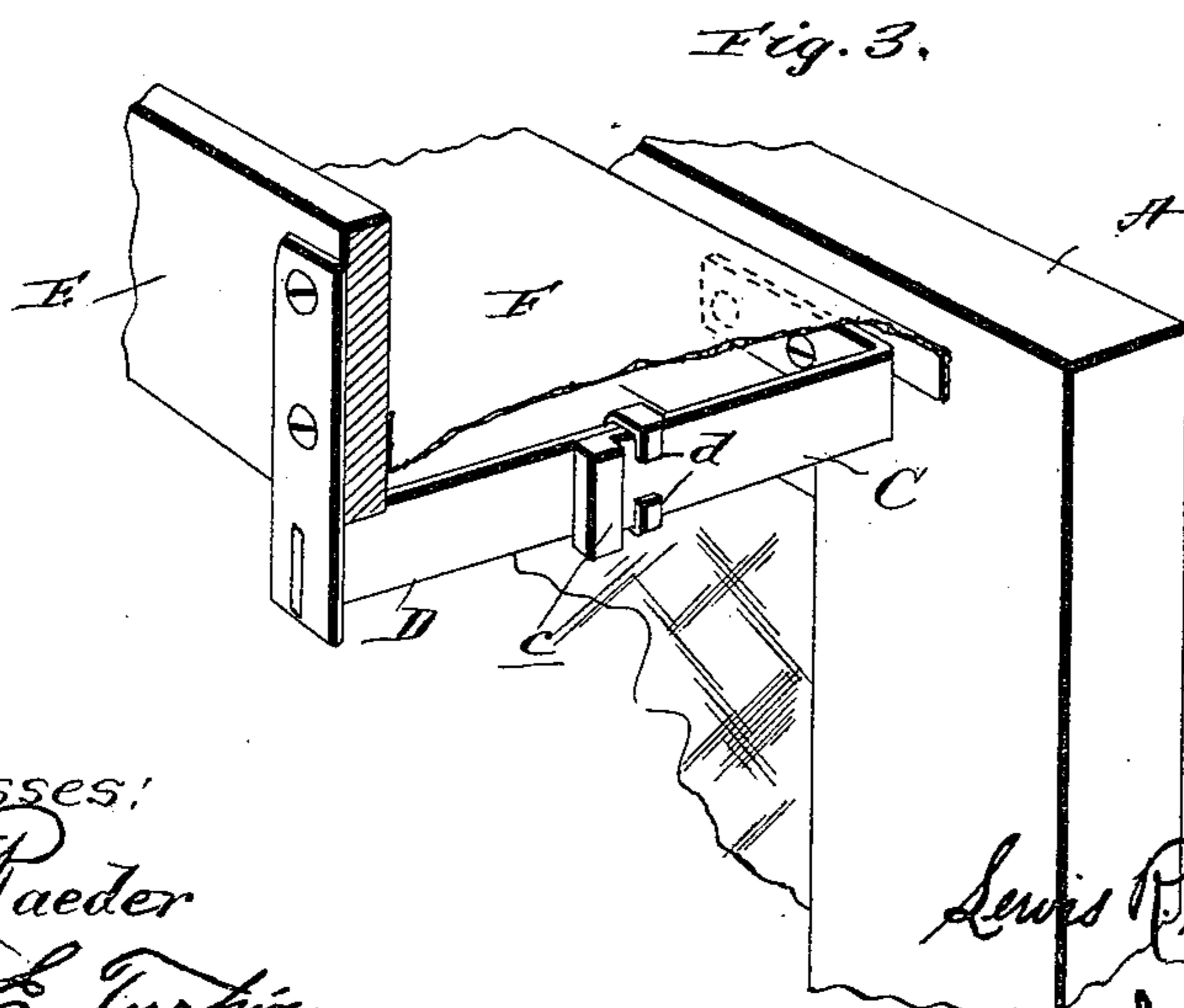
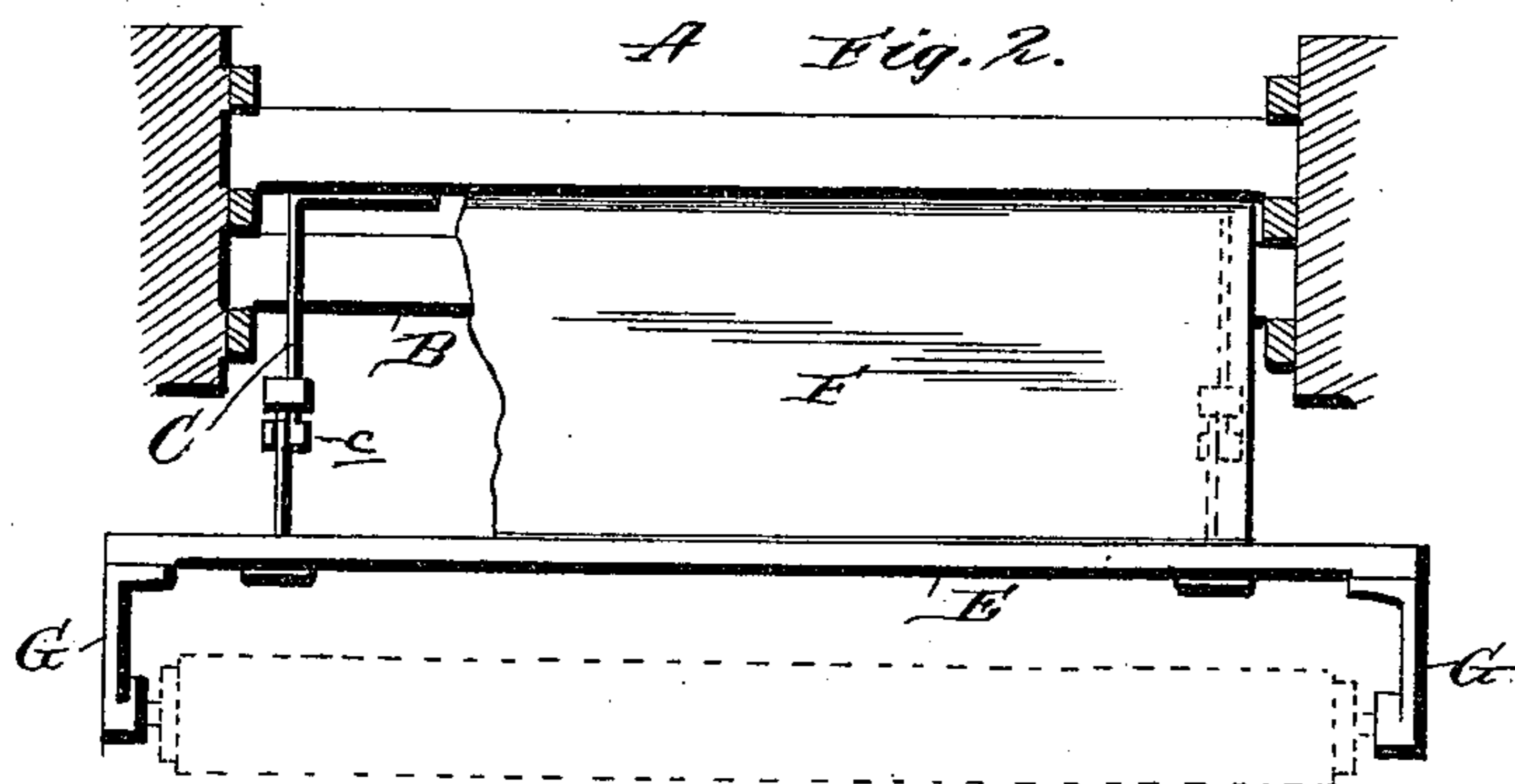
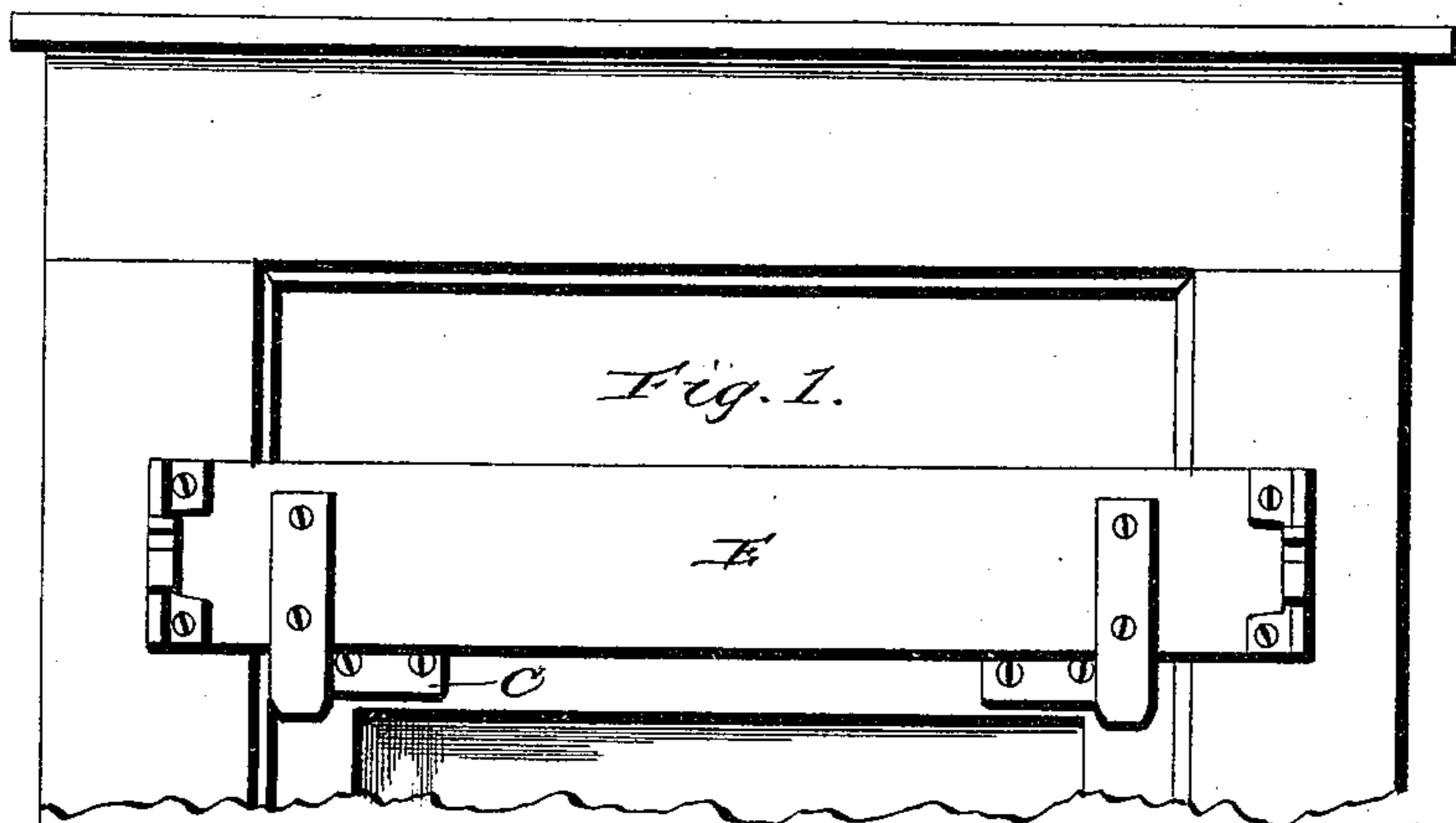


(No Model.)

L. R. SCHMALHAUSEN.
EXTENSION BRACKET.

No. 441,513.

Patented Nov. 25, 1890.



Witnesses:
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UNITED STATES PATENT OFFICE.

LEWIS R. SCHMALHAUSEN, OF CHARLESTON, ILLINOIS.

EXTENSION-BRACKET.

SPECIFICATION forming part of Letters Patent No. 441,513, dated November 25, 1890.

Application filed August 14, 1890. Serial No. 362,017. (No model.)

To all whom it may concern:

Be it known that I, LEWIS R. SCHMALHAUSEN, a citizen of the United States, residing at Charleston, in the county of Coles and State of Illinois, have invented certain new and useful Improvements in Extension-Brackets; and I do 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.

My invention relates to improvements in extension-brackets designed to carry the roller of a window shade or curtain, and the novelty will be fully understood from the following description and claims, when taken in connection with the accompanying drawings, in which—

Figure 1 is a front elevation of my improvements in operative position, the shade-roller being omitted. Fig. 2 is a top plan view of the same complete, the shade-roller being illustrated in dotted lines; and Fig. 3 is a perspective view of a portion of a window-sash with one of my improved extension-brackets attached thereto, a portion of the transverse bar which connects the brackets and the auxiliary top shade being illustrated.

In carrying out my invention the several parts of the device may be formed of a material and in a proportional size conducent to a thorough operation thereof, and I do not desire to be understood as confining myself to the precise construction illustrated and to be described, as it is obvious that such changes may be made to enhance the value of the device as fall within the scope of my invention.

Referring by letter to the accompanying drawings, the outer window-sash A, to which I attach my improvements, although they may, if desired, be attached to the inner sash, is confined between guide-strips, as illustrated, and is governed in its movements by the ordinary balance-weights employed in this class of devices, as is also the inner sash B, which is also movable in guide-strips.

The fixed arms C of the extension-brackets, which are preferably formed of metal strips, are provided with angular inwardly-bent portions, as illustrated, having screw-holes for their attachment to the top bar of the sash adjacent to the sides thereof, and the said

arms C are also provided at their outer ends with an enlargement *c*, whereby a stop is afforded and the movement of the adjustable arms is limited and their displacement prevented.

The adjustable arms or branches D of the bracket may be cast or otherwise formed in one piece; but I prefer to construct them as illustrated, the upwardly-extending branch being fixed upon the outer end of the horizontal branch. The horizontal branch of the adjustable arms is provided at its inner end with lateral branches or lugs *d*, which extend from the lower and upper edges thereof and are bent up and down respectively in a rectangular manner to embrace the fixed arms C, on which they move when the extension branch is adjusted. The upright branch of the extension-arms is provided with screw-holes, as illustrated, to receive screws for the attachment of a transverse strip E, which connects the two brackets and serves to brace the same. Secured to the transverse bar E and the top bar of the window-sash is an auxiliary top shade F, which extends the entire width of the window-opening and serves as an auxiliary shade to the depending curtain. This shade F is of a width to allow of a full outward adjustment of the extension-bracket, and is formed of a textile fabric sufficiently pliable to allow of a free movement of said brackets.

The journal arms or brackets G for the shade-roller are preferably secured to the transverse bar E outside of the extension-arms, as illustrated, so that the roller, which is journaled therein and carries the shade, may cover the full width of window-opening to effectually shade the room.

By the construction described it will be seen that by lowering the upper sash ventilation is afforded at the top of the room and the foul and impure air which collects there is allowed to escape, and the fresh air which enters at the same time facilitates the discharge of the impure air without creating any direct draft in the lower part of the room. It will also be seen that the upper sash may be partly drawn down to ventilate the room, and the curtain which comes down with the sash may then be drawn down the full length of the window, so as to ventilate and shade the room

at the same time, and it will be seen that when the sash has been drawn down the top curtain F will prevent the air from blowing the window-shade to and fro, as is so objectionable.

Having described my invention, what I claim is—

1. The combination, with a window-sash, substantially as described, of extension-brackets fixed to the top bar thereof adjacent to its sides, the transverse bar connecting the outer ends of the said brackets, and the shade-strip fixed to the said transverse bar and the top bar of the sash, substantially as described, for the purpose set forth.

2. The combination, with a window-sash, substantially as described, of the bracket-arms fixed thereto adjacent to its sides and provided at their outer ends with an enlargement, the movable brackets provided at their inner ends with lug branches adapted to embrace the fixed arms and at their outer ends with upwardly-extending branches for the attachment of a transverse connecting-bar, and

the shade-strip attached to the transverse bar and the top bar of the sash, all adapted to operate substantially as specified.

3. The combination, with a window-sash, of extension-brackets fixed to the top bar thereof adjacent to its sides, said brackets consisting of the fixed arms and the adjustable extensions movable thereon, having at their inner ends lug branches adapted to embrace the fixed arms and at their outer ends with upwardly-extending branches for the attachment of a transverse bar, the bracket journal-arms fixed upon said transverse bar adapted to afford bearings for a shade-roller, and the shade-strip attached to the transverse bar and the top bar of sash, substantially as described, for the purpose set forth.

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

LEWIS R. SCHMALHAUSEN.

Witnesses:

FRANCIS M. PARKER,
GEO. M. WATSON.