

M. HALÁSZ.
SLIDING WINDOW.
APPLICATION FILED NOV. 23, 1908.

995,455.

Patented June 20, 1911.

Fig. 1

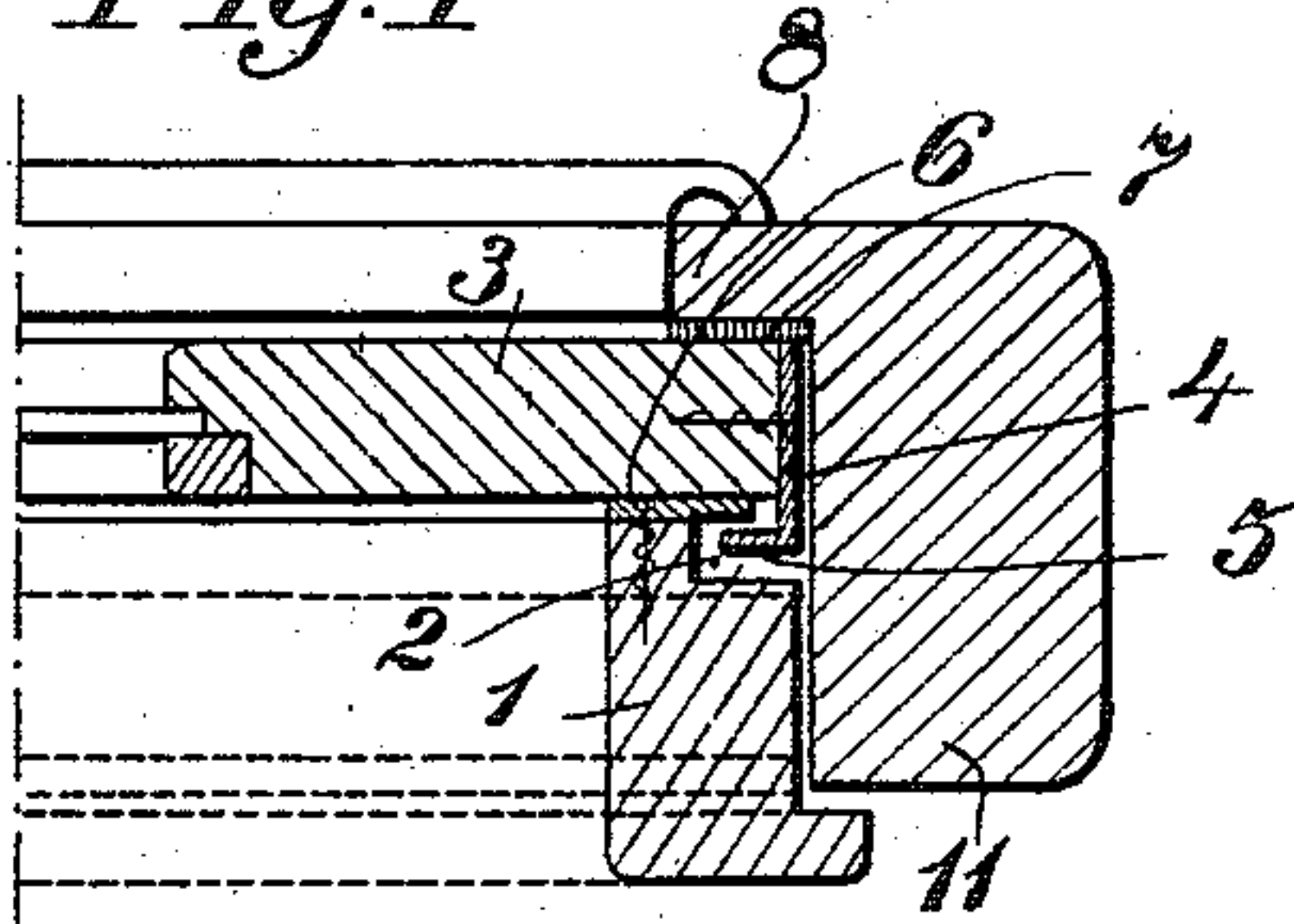


Fig. 2

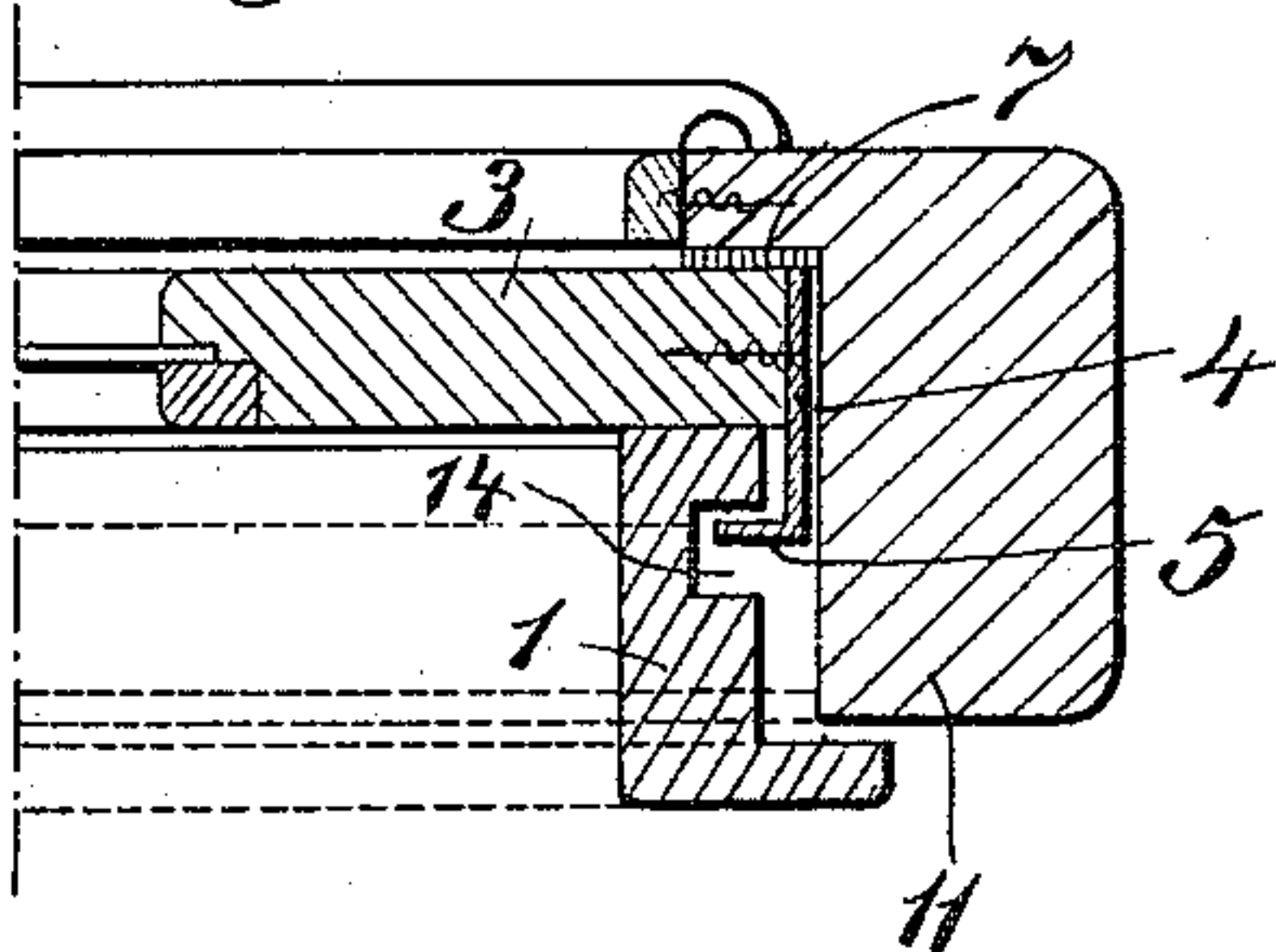


Fig. 4

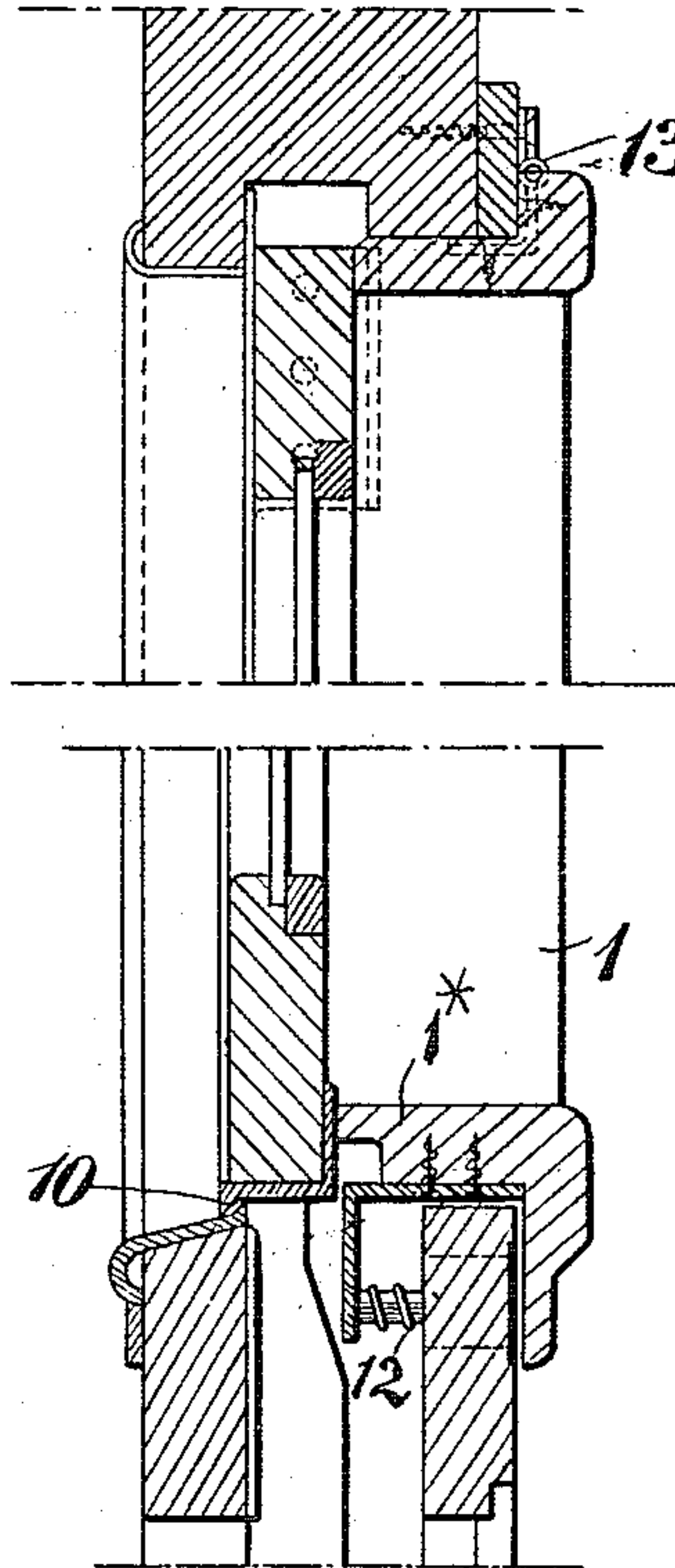
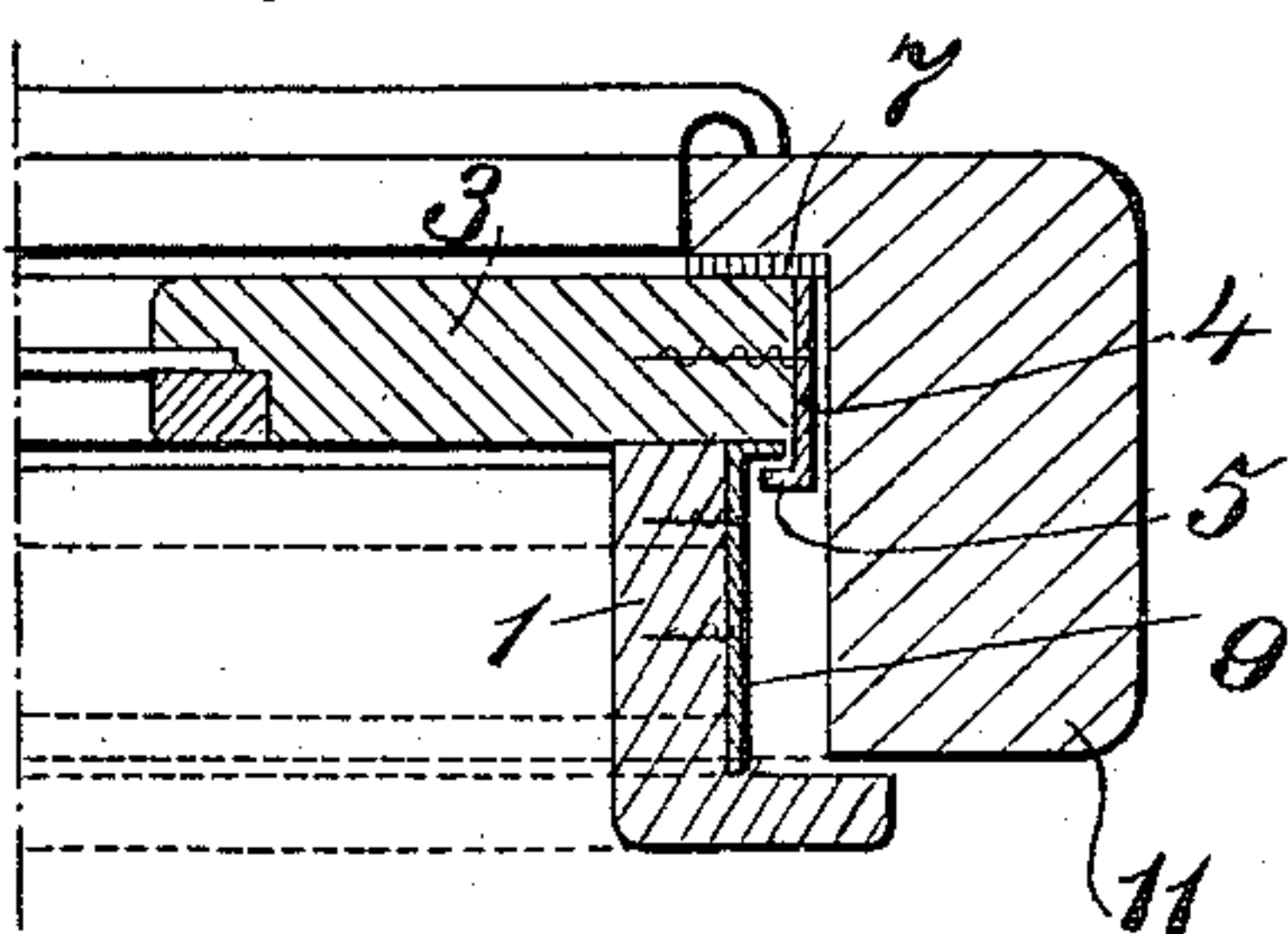


Fig. 3



WITNESSES

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MANÓ HALÁSZ, OF BUDAPEST, AUSTRIA-HUNGARY.

SLIDING WINDOW.

995,455.

Specification of Letters Patent. Patented June 20, 1911.

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To all whom it may concern:

Be it known that I, MANÓ HALÁSZ, a subject of the King of Hungary, and residing at Podmaniczkyutoa, 77, Budapest, Austria-Hungary, have invented certain new and useful Improvements in Drop-Windows, of which the following is a specification.

This invention relates to windows the sashes of which are adapted to be lowered to open and to be raised to close and further when in the raised position are pressed forward on to the packing strip mounted upon the window case, correspondingly with the outer surfaces of the sliding sash by means of a spring pressed pressing frame, the sash being automatically kept clear from the packing strip, when it is being moved up and down, by means of a U-shape metal plate mounted upon the sash and adapted to slide upon a flanged metal plate carried upon the spring pressed pressing frame. In these windows as hitherto arranged in order to fit the metal parts the window case requires double fluting which considerably weakens the same and enlarges the basis of the construction; also the simplest form of metal plate provided upon the sash is in the shape of a U, having one limb elongated. These metal plates when made of iron are liable to rust and so cause the window to jam, and if made of brass or other non-oxidizing material are very expensive.

The object of this invention is to overcome these disadvantages by providing upon each side of the sash a single flanged metal plate adapted to co-act with a groove or a similar single flanged metal plate formed in or upon the spring pressed pressing frame.

The accompanying drawings illustrate several modes of carrying out the invention, Figures 1, 2 and 3 showing several forms of window in sectional plan while Fig. 4 is a sectional elevation corresponding thereto and showing the sash in the closed position.

In the forms illustrated in the drawings, 3 represents the window sash which when being moved up and down slides in grooves formed in the window case, 11. When the window sash, 3, is in its closed position it is raised to its full extent and moved forwardly so that its lower edge rests in front of a slight rail or bar, 10, as shown in Fig. 4, it being necessary to slightly raise the

sash and move it backwardly in order to lower it down the grooves in the side frame, 11, as usual in drop windows.

A packing strip, 7, of velvet or other soft material is provided upon the corresponding surfaces of the window case.

A frame, 1, Fig. 4, presses the sash, 3, under the action of springs, 12, against the packing strip, 7, when the window is in the closed position, this pressing frame, 1, being of any usual construction and hinged as usual at the top as indicated for example at 13, Fig. 4.

Now in order to prevent the pressing frame, 1, pressing the sash, 3, against the packing strip, 7, when the sash is being raised or lowered, the sash, 3, in one form as shown in Fig. 1, is provided with a metal plate, 4, on each side edge, the plate, 4, having a flange, 5. The latter is adapted to slide in the guiding channel, 2, formed by the groove in the pressing frame, 1, and the plate secured to the outer surface of the side ledge of the pressing frame. The flange, 5, may rub against a metal strip, 6, secured to the frame, 1. Thus when the sash, 3, is to be lowered, it is slightly raised from the position shown in Fig. 4, and drawn backwardly so that it can fall down its grooves in the side frames. When the sash is drawn back its lower rail pushes back the lower part, 1*, of the resilient pressing frame, 1, and swings the latter slightly about its hinges, 13. The sash then passes down behind the rail, 10, and holds the rail, 1*, of the frame, 1, back and as the flange, 5, on each side during the falling of the sash runs in the corresponding groove, 2, the plate, 6, holds the sash, 3, away from the packing strip, 7, so that the sash can fall freely without any friction or rubbing action occurring upon the packing strip.

The same action occurs in the form of the invention illustrated in Fig. 2 wherein the plate, 6, of the previously described form is dispensed with and a groove, 14, is directly formed in the pressing frame, 1. The groove, 14, however may be lined or strengthened if required by a plate of corresponding form.

Fig. 3 illustrates a third form of the invention in which an angle plate, 9, is secured to the side of the pressing frame, 1, with the angle or flange of which the flange, 5, on the plate, 4, secured to the sash, 3, engages.

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

1. In a drop window of the type described, means for holding the sash clear of the packing while it is being raised or lowered consisting of a single-angled flanged metal plate mounted upon the upper part of each side edge of the sliding sash so that the metal plate is substantially at right angles to the sash and the flange is substantially parallel thereto, a spring-pressed pressing frame having a groove in each side surface thereof—facing the side frame of the window—the flange on each of the said plates being adapted to slide in the corresponding groove and co-act with the side nearer the sash of said groove in the pressing frame, substantially as and for the purposes hereinbefore set forth.

2. In a drop window of the type described, means for holding the sash clear of the packing, while it is being raised or lowered consisting of, a single-angled flanged metal plate mounted upon the upper part of each side edge of the sliding sash so that the metal plate is substantially at right angles to the sash and the flange is substantially parallel thereto, a spring pressed

pressing frame having an L shaped groove in each side edge thereof and a metal plate for each of said grooves placed so as to form a U shaped channel, the flange on each of the single-angled flanged plates being adapted to slide in said U shaped channel and co-act with the corresponding metal plate, substantially as and for the purposes set forth.

3. In a drop window of the type described, means for holding the sash clear of the packing while it is being raised or lowered, consisting of, a single-angled flanged metal plate upon the upper part of each side edge of the sliding sash, a spring-pressed pressing frame, a single-angled flanged metal plate on each side surface—facing the side frame of the window—of said pressing frame, each of the former flanged metal plates being adapted to slide on and co-act with each of the latter substantially as and for the purposes hereinbefore set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MANÓ HALÁSZ.

Witnesses:

ERNEST MILLER,
MICHAEL TOMOR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."