

No. 732,692.

PATENTED JULY 7, 1903.

O. F. ABRAHAMSON.
STORM SASH HANGER.

APPLICATION FILED JAN. 21, 1903.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 4

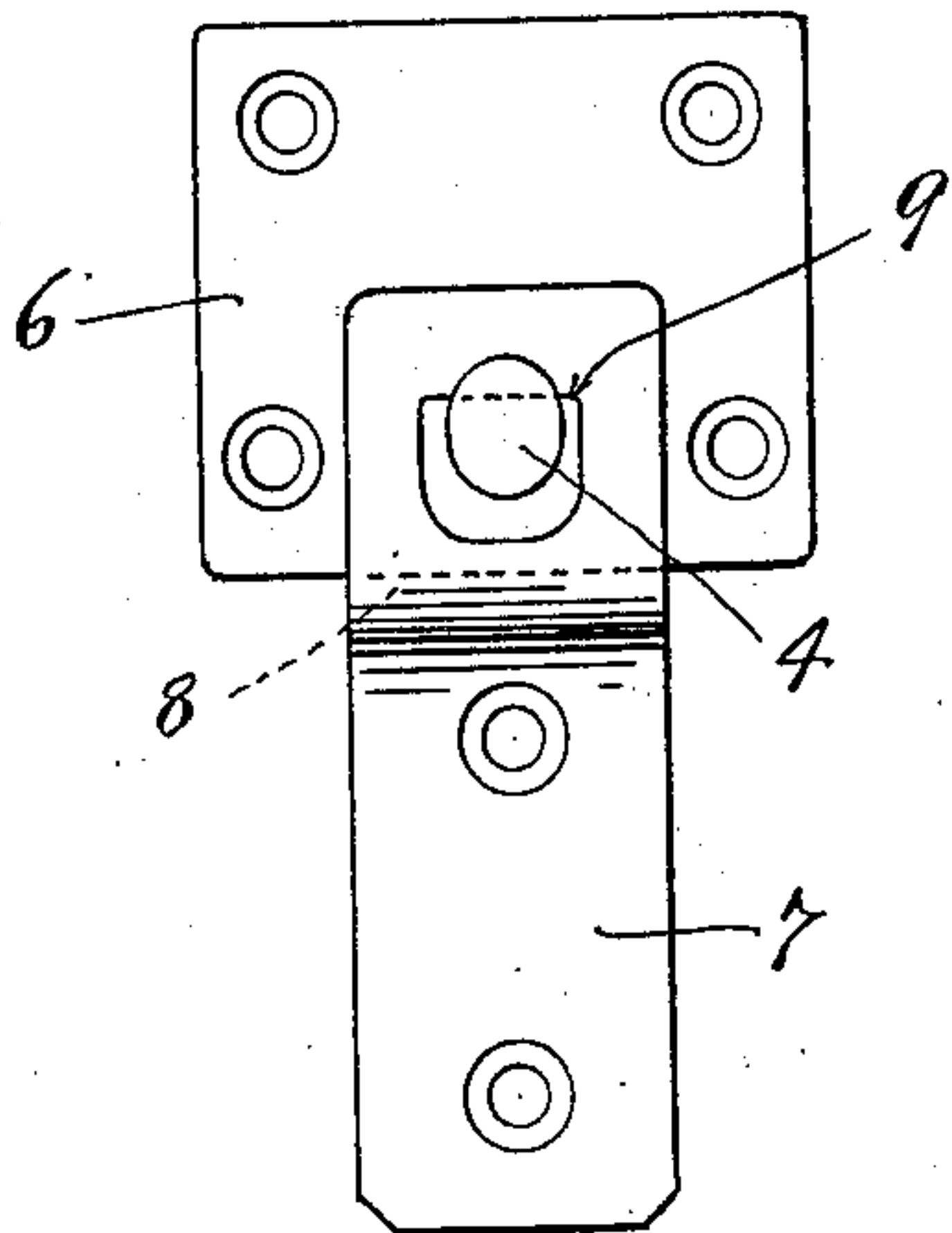
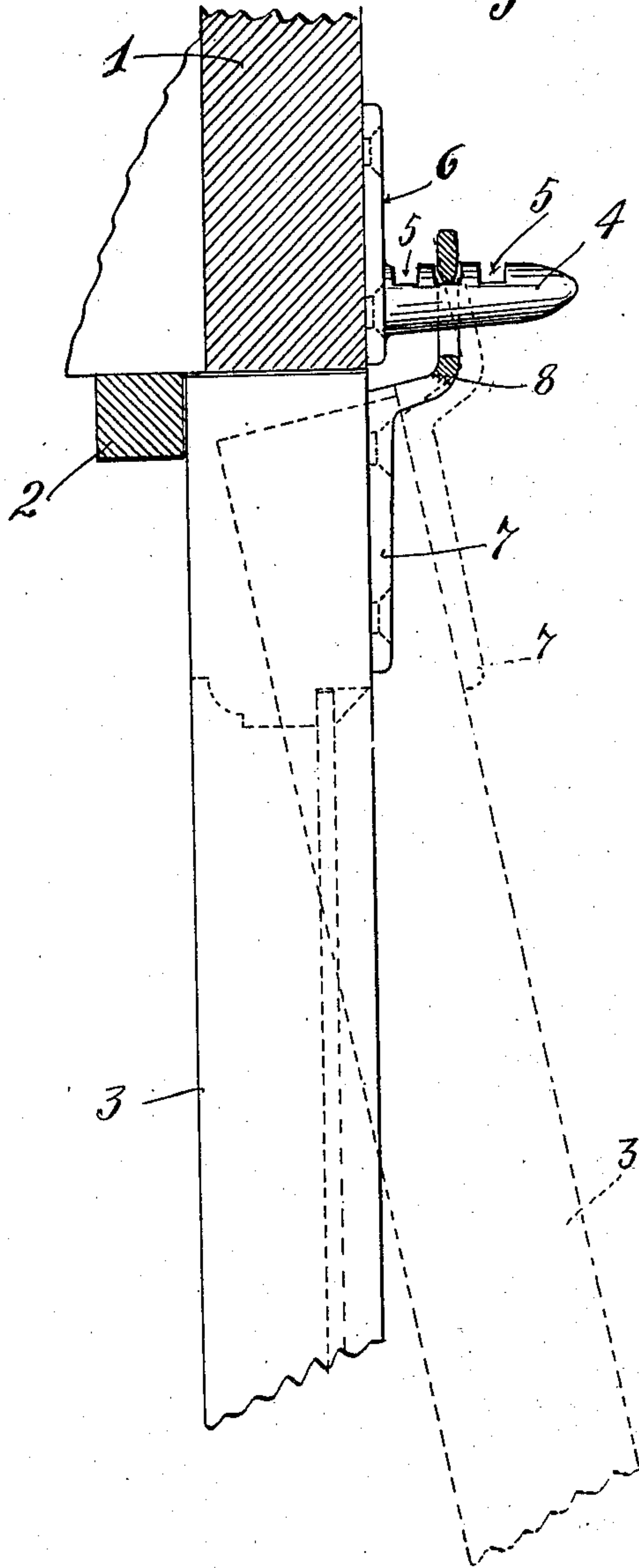


Fig. 3



Witnesses.
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UNITED STATES PATENT OFFICE.

OSCAR F. ABRAHAMSON, OF MINNEAPOLIS, MINNESOTA.

STORM-SASH HANGER.

SPECIFICATION forming part of Letters Patent No. 732,692, dated July 7, 1903.

Application filed January 21, 1903. Serial No. 139,963. (No model.)

To all whom it may concern:

Be it known that I, OSCAR F. ABRAHAMSON, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Storm-Sash Hangers; 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.

My invention has for its object to provide an improved storm-sash hanger; and to this end it consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

It is a well-known fact that storm-sash vary greatly in thickness, and also that in different windows the stop-strips against which the storm-sash must be seated are located different distances from the outer surfaces of the window-frame. When the storm-sash happened to come flush with the outer surface of the window-frame, hinges as hitherto constructed will serve to properly hang the same. When, however, the storm-sash is of such thickness that it sets inward of or projects outward of the outer surface of the window-frame, the ordinary hangers do not well answer the purpose of properly supporting the upper end of the storm-sash.

My invention provides an adjustable hanger or one that will adapt itself or may be adapted to the storm-sash regardless of its thickness and regardless of whether or not the same when properly seated sets within or projects without the outer surface of the window-frame.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Figure 1 is an outside elevation showing a storm-sash hung from a window-frame by a pair of my improved hangers. Fig. 2 is a vertical section on the line $x^2 x^2$ of Fig. 1, some parts being broken away and others being removed. Fig. 3 is an enlarged view on the same line as Fig. 2; and Fig. 4 shows one of the improved hangers removed from working position looking at the same from the outer side.

The numeral 1 indicates an ordinary window-frame provided with the ordinary stop-strip 2, against which the storm-sash 3 is pressed when closed.

The fixed member of the hanger is afforded by a stud or projection 4, which is provided on its upper surface with a plurality of notches 5 and is preferably cast integral with a plate 6, which is rigidly secured to the upper and outer portion of the window-frame by screws or other suitable devices.

The swinging member of the hanger is afforded by a strap or bracket 7, having an outwardly offset and perforated head or upper end section 8, which is adapted to be cast freely over the stud 4 of the cooperating fixed member and is provided with a bearing edge 9, adapted to be seated in any one of the several notches 5. The strap or bracket 7 will of course be secured by screws or otherwise to the upper and outer portion of the storm-sash 3.

Two of the above-described hangers are used to support each storm-sash, and they are preferably applied as described, and as best shown in Figs. 1 and 3.

As shown, there are three notches 5 on each stud 4, (this number may of course be varied,) and the heads 8 of the swinging brackets 7 are offset to such an extent that with a storm-sash which comes flush with the outer surface of the window-frame the fulcrum edges 9 of the said bracket are engaged with the central or intermediate notches 5, as shown in Fig. 3. Now it is evident that if the outer surface of the storm-sash happens to come inward of the outer surface of the window-frame the bearing edge 9 of the bracket 7 may be engaged with the innermost notch 5, while, on the other hand, with a storm-sash of such thickness that its outer surface projects beyond the outer surface of the window-frame the fulcrum edge of the bracket 7 may be engaged with the outermost notch 5. By varying the number of notches 5 and by varying the distance between them various degrees of adjustment may be provided for.

It will of course be understood that the device above described is capable of modification within the scope of my invention as herein set forth and claimed. It will also be understood that the hangers may be used for

hanging not only storm-windows, but various other devices which are hung in a similar manner.

5 What I claim, and desire to secure by Letters Patent of the United States, is as follows:

10 1. A hanger for storm-sash, &c., comprising in its construction two members, the one consisting of a base-plate having a projecting stud with longitudinally-spaced notches, and the other consisting of a perforated base-plate providing a bearing edge adapted to be engaged with one or the other of the notches of said projecting stud, substantially as described.

15 2. The combination with a window-frame and a storm-sash, or similar device, of a

hanger consisting of two hinge members, the one fixed on the window-frame and provided with an outwardly-projecting notched stud, and the other secured to the storm-sash and having an outwardly-offset head or portion, adapted to be fulcrumed in any of the notches of said projecting stud, to adapt the hanger to sash of various thickness, substantially as described. 20

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

OSCAR F. ABRAHAMSON.

Witnesses:

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ELIZABETH H. KELEHIR.