March 25, 1930. E. D. BARRINGER 1,751,679

SASH PLUG

Filed Nov. 5, 1928

Fig. 1.

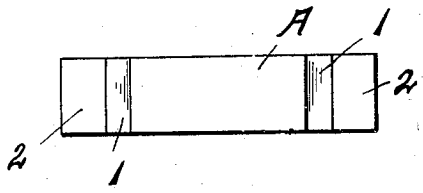
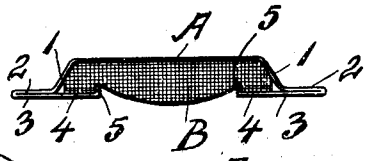


Fig. 2.



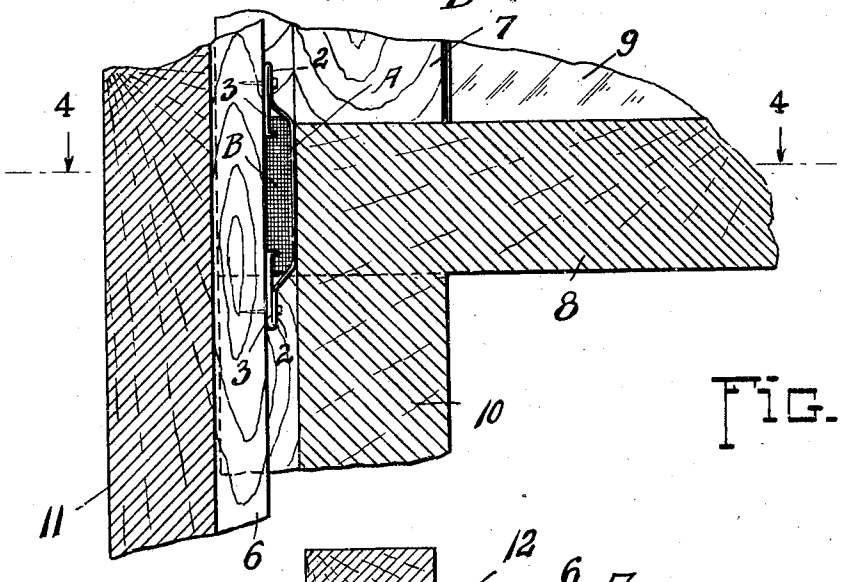


Fig. 3.

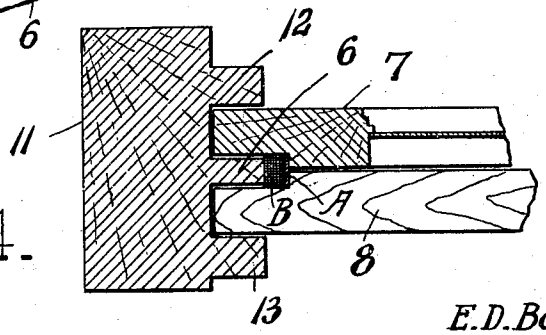


Fig. 4.

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UNITED STATES PATENT OFFICE

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SASH PLUG

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This invention comprises what is known in the art of weather stripping windows, as a sash plug or filler member. An article of the kind above mentioned is arranged between the sliding sash at the side grooves where the sash cooperates with the parting strip of the window frame, the latter acting as a guide means in the well known manner. The purpose of the sash plug or filler member is to occupy and plug or fill the space which is ordinarily provided between the lower rail of the upper sash and the upper rail of the lower sash, and the parting strips, at opposite sides of the window, the said spaces offering passages for air if some means is not employed to plug them.

In the carrying out of my invention, I have designed a very simple appliance for the purpose in view, one which may be readily manufactured and in which are combined as usual, a metal carrier plate and a felt or closely woven fabric packing member. My invention resides primarily in the forms of the plate whereby it interlockingly engages with the packing element employed so as to firmly unite these two parts together without necessitating the employment of any fastening means such as glue or staples or the like. To this end, I utilize a peculiar formation of the metal strip which forms the plate element, the same having rebent terminal portions that provide nailing extremities and additionally provide holding elements interlocking with the packing to unite the latter with the metal body or plate member so that the two parts may be sold as a unit firmly connected together.

A full understanding of the invention will be had upon reference to the following description and the accompanying drawings, in which:—

Figure 1 is a top plan view of my sash plug or filler member.

Figure 2 is a side elevation view of the same.

Figure 3 is a fragmentary view of the window frame and sash therein, illustrating the arrangement of my device under practical conditions, and

Figure 4 is a sectional view taken about on the line 4—4 of Figure 3.

Referring to my invention to describe it in detail, with particular reference to the accompanying drawings, I note that my sash plug comprises primarily what I shall call a plate member A and a packing member B. The plate member is preferably made from an elongated strip of sheet metal and is folded in a peculiar way. With the foregoing in view, it will be observed that at each end the plate member A is bent laterally as at 1 and thence parallel with its body as at 2, said parallel portion at each end being refolded upon itself as at 3, being bent in a direction opposite to that in which the general end portion projects. The rebent portion 3 is extended sufficiently to provide a projection or arm 4 having a biting flange 5 adapted to engage directly, as does the arm 4 itself, with one side of the packing member B. I have thus described one end portion of the plate member A, and its opposite end portion is of identical formation, so that there is provided beneath the plate member a cavity for receiving the filling packing member B, and this packing member B is retained in the cavity by the direct engagement of the parts 4 and 5. Moreover, these parts 4 and 5 exert a constant pressure upon the packing member B so that when it is assembled in the cavity of the plate member A, the former may not be accidentally displaced from the latter and the two will form a unitary device in a self-evident manner. Obviously, I may make the plate members A by a suitable machine, and once the packing member B is forced into the cavity of its plate member, the parts will be firmly connected in the manner stated. The packing member B may be made of any suitable material such as the felt employed for metal stripping purposes.

From the foregoing, it will be observed that I have a sash plug with projecting ends provided by the parts 2—3 at each end, and the parts 2 and 3 together form nailing members through which a tack or small nail may be readily hammered in order to secure the appliance to a side of the window frame where it belongs.

An article of the kind which I have presented above is advantageous as a supplemental means for use in connection with weather stripping to keep air from passing from the outside to the inside of a room or compartment, through the space between the adjacent rails of the sash and the parting strip of the window. The parting strip aforesaid is designated 6, the sash rails referred to are designated 7 and 8, the upper sash 9, and the lower sash 10. The window frame is designated 11 and the guide strips thereon are designated 12 and 13.

My invention provides a very simple article of manufacture, and doing away as it does with special fastening means for fastening the packing member to the plate member, I find it to be very advantageous under actual conditions of manufacture and use.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:—

As a new article of manufacture, a sash plug comprising a packing member, and a plate member consisting of a strip of metal having its end portions bent on an incline from the body of the strip, and thence extended parallel to the body of the strip and refolded upon themselves to provide attaching means for the plug, the said refolded portions being extended to provide arms spaced from and underlying the body of the plate member, between which arms and said body of the plate member the packing member is received and clamped, said arms being formed with engaging flanges to directly engage and assist in firmly holding in place the packing member.

In testimony whereof I affix my signature.

ELMER D. BARRINGER.