April 19, 1927. 1,625,764

M. E. BOSLEY

WEATHER STRIPPING

Filed June 16, 1924

Fig. 1

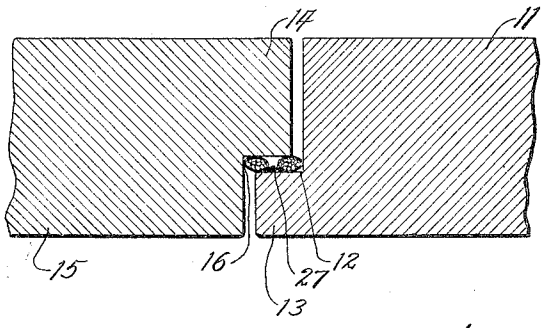


Fig. 3

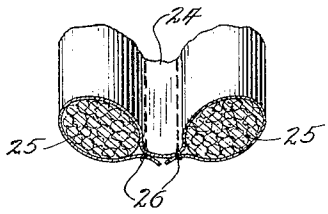


Fig. 2

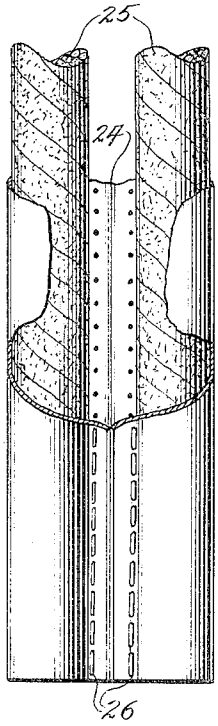
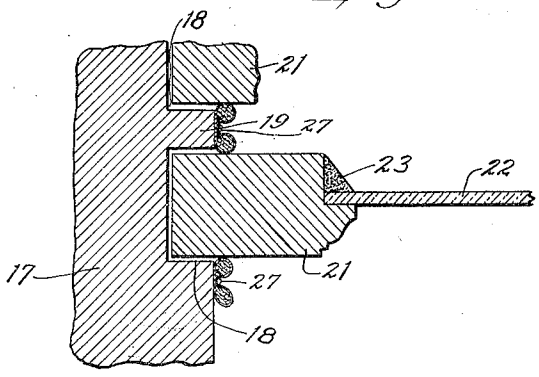


Fig. 4



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UNITED STATES PATENT OFFICE.

MAURICE E. BOSLEY, OF CHICAGO, ILLINOIS.

WEATHER STRIPPING.

Application filed June 16, 1924. Serial No. 720,297.

My invention relates to weather stripping or gaskets adapted to be employed for sealing the space between relatively movable or opening or closing members, such as doors and windows of houses, doors of refrigerators, and the like.

The principal object of the invention is the provision of weather stripping formed of double sealing portions with an attaching portion therebetween, the parts of which are secured together in strong and durable manner, preferably by means of a plurality of lines of stitching, thus insuring an effective seal at all times, regardless of the wear and damage to which such stripping is ordinarily subjected.

Still another object of my invention resides in providing a novel construction of weather stripping which may be converted from a double beaded strip with intermediate attaching flange to two single beaded strips, each having an attaching flange, by means of a simple severing operation.

Numerous other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings,

Figure 1 is a horizontal sectional view of the edge of a door or casing provided with weather stripping constituting a preferred embodiment of the invention;

Fig. 2 is an enlarged elevational view, partially broken away and showing in detail the construction of the stripping;

Fig. 3 is an enlarged perspective view, showing particularly the manner in which the edges of the strip are secured to the body adjacent the tubular enclosing portions; and

Fig. 4 is a horizontal detail section of a portion of a window and frame having weather stripping embodying my invention attached thereto.

Referring to said drawings illustrating the best manner in which I have contemplated employing the principles of the invention, the reference character 11 indicates a portion of the door frame which is cut away at 12 to provide a jamb 13 against which a flange 14 of the door 15 is adapted to close, said flange being formed by cutting away the door edge, as indicated at 16, so that the door and frame may be substantially in alignment when the door is closed.

In Fig. 4, I have shown a window construction consisting of a frame portion 17, having guiding grooves 18 formed therein, between which is a parting strip 19 and in which the sash members 21 are adapted to slide. The pane 22 is secured to said sash members in any preferred manner, as by putty 23, and the weather stripping, to be presently described, is secured to the parting strip 19 and to the frame adjacent the groove 18.

The weather stripping provided by the present invention comprises a piece of fabric 24, which is preferably impregnated with a rubber compound, or otherwise suitably treated to give it a hard finish, and packing 25 enclosed in spaced folds in said fabric. Said packing is composed of soft wicking, yieldable under pressure and adapted to conform to the surface of the members contacting therewith to provide an effective seal. The edges of said strip are stitched to the body thereof along lines 26 adjacent the tubular enclosing portions, and since each edge is separately stitched, a double attachment is effected, adapted to insure against such separation of the parts as would destroy the sealing qualities of the stripping, and a strip is provided that may be separated between folds and each part thereof used individually in small spaces. The space between the lines of stitching 26 is preferably sufficiently great to permit the insertion of tacks 27 therein, and since the material throughout this area is doubled, an exceptionally strong attaching portion is provided.

One of the improved features of my invention resides in its convertibility; by providing the substantially wide tacking flange 24 between the two beaded portions 25, I am enabled by slitting this flange 24 longitudinally and intermediate its width to provide two single beaded weather strips, each having a tacking flange which is formed by the half width of the tacking flange 24 of the prior double beaded strip. This construction is made possible by reason of the two rows of stitches 26 which are located at the junction of the beaded portion of the rubberized jacket and to the fact that these two rows of stitching are faced relatively wide apart thereby to provide a sufficient width of flange for each separately when

the double beaded strip is severed. In this connection, it will be noted that each one of these lines of stitchings, line 26, functions to hold the single beaded strip when severed in an assembled position so that it may be tacked without further alteration.

When applied to the parting strip of a window, as shown in Fig. 4, it is apparent that weather stripping of the character provided by my invention affords a seal with the movable members at the opposite side of said strip and in this manner, better protection is afforded, as well as economy in construction and material. This, combined with the durability of the form of stripping provided by the invention, results in a decided practical and commercial improvement.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention, or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment of the invention.

I claim:

1. A weather stripping, comprising a strip of flexible, wear-resisting material having a double fold, and a yieldable packing enclosed within each fold of said strip and adapted to be compressed to conform to the parts with which it contacts, the opposite ends of said strip being separately stitched to the body thereof inwardly of the folds, thereby enclosing the packings separately and providing a double stitch of the strip therebetween.

2. A weather stripping, comprising a flexible strip of wear-resisting fabric having folds at the opposite sides thereof, and yieldable packing enclosed within said folds, said strip having a plurality of lines of stitching disposed between the folds and substantially spaced apart.

3. A weather stripping, comprising a strip of flexible, wear-resisting fabric folded to provide spaced tubular enclosing portions, an elongated body of yieldable packing enclosed within each of said tubular enclosing portions, the edges of the strip being stitched to the body thereof adjacent the packing and providing an attaching portion of substantial width between the tubular enclosing portions.

4. Weather stripping, comprising a strip of material having folds at the opposite sides thereof and yieldable packing enclosed within said folds, said folds being stitched to the body of said strip enclosing said yieldable packing and said stitches being spaced apart to permit division of said strip upon occasion.

MAURICE E. BOSLEY.