W. W. COLE.

COMBINED PARTING BEAD AND WEATHER STRIP.

APPLICATION FILED JULY 24, 1918.

1,393,264. Patented Oct. 11, 1921.

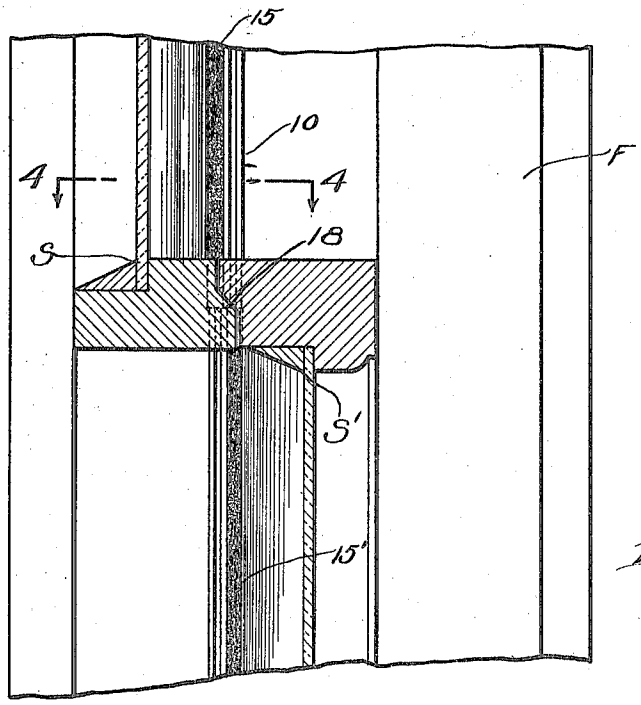


Fig. 1.

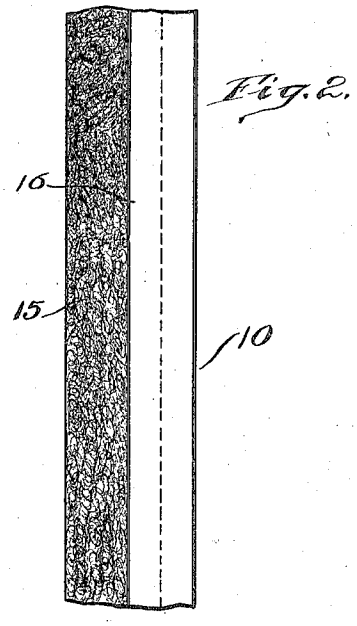


Fig. 2.

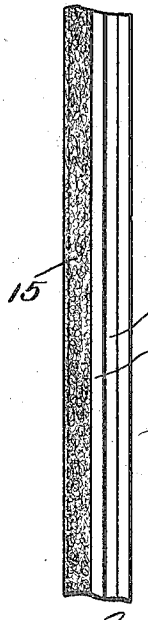


Fig 3

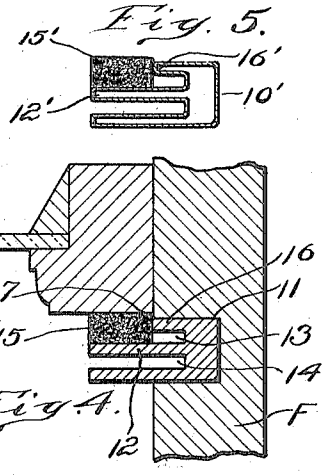


Fig. 4.

Fig. 5.

Inventor:
Warren W. Cole
By Clyde R. Rogers
his atty.

UNITED STATES PATENT OFFICE.

WARREN W. COLE, OF PORTLAND, MAINE, ASSIGNOR TO THE E. T. BURROWES COMPANY, OF PORTLAND, MAINE, A CORPORATION OF MAINE.

COMBINED PARTING-BEAD AND WEATHER-STRIP.

1,393,264. Specification of Letters Patent. Patented Oct. 11, 1921.

Application filed July 24, 1918. Serial No. 246,580.

To all whom it may concern:

Be it known that I, WARREN W. COLE, a citizen of the United States, and resident of Portland, county of Cumberland, State of Maine, have invented an Improvement in Combined Parting-Beads and Weather-Strips, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts in each of the several views.

This invention relates to an improved construction of parting bead for windows, that is adapted to serve also as a weather strip to coöperate with the upper and lower sashes of a window and presents a resilient edge pressing against the entire length of the sides of the sash preventing rattling or vibration of the sash in the window frame. To this end I provide a parting bead equipped with a resilient projection or tongue, and preferably rabbeted to receive a cushion or packing strip which is applied to, and held by such resilient tongue so that the pressing edge of such cushion strip which engages the sash has a degree of resiliency combining the resilient effect of both such cushion and the resilient tongue or backing by which the cushion is carried. The foregoing and other objects and advantages of the invention will more fully appear from the following detailed description, and the distinctive features of novelty will be pointed out in the appended claims.

Referring to the drawings:

Figure 1 is a view showing a portion of a window frame with mating portions of the upper and lower sashes in transverse section, and showing portions of my improved parting bead in elevation;

Fig. 2 is a front elevation showing a portion of the parting bead;

Fig. 3 is an edge view thereof;

Fig. 4 is a transverse section on line 4—4 of Fig. 1; and

Fig. 5 is a cross sectional view of a modification.

F indicates a portion of a window frame with upper and lower sashes S, S′ respectively fitted thereto. The parting bead, *i. e.*, the narrow rail which constitutes the inner guide for the upper sash and the outer guide for the lower sash is indicated at 10 set into a recess 11 therefor in the side of the window frame as is usual, with a portion, usually about half, of such bead or rail projecting outward to serve as the sash guide. In accordance with my invention this rail or bead is slitted or cut out throughout the length thereof and from its outer projection inward through a large part of the width thereof, to form an intermediate resilient tongue. The present parting bead may be made either of wood or metal, the wood construction being indicated in Fig. 4 and the metal form in Fig. 5. Thus in the form of Fig. 4, the intermediate resilient tongue is indicated at 12, the parting bead, for this purpose, having spaced apart slits 13, 14 produced therein adjacent its sides and extending from the front edge well toward the back of the bead. To this resilient tongue is secured, by suitable adhesive or other fastening means a cushion or resilient strip 15 which may be of felt, rubber or other similar material. The side 16 of the bead is cut away to receive this cushion strip, which may thus be of some little thickness, extending across the slit 13 and the thickness of the side portion 16 and preferably projecting a little beyond the side face of the bead as seen at 17. This strip is preferably of a width substantially corresponding to the projecting portion of the bead so that its inner edge will lie approximately flush with the surface of the frame into which the bead is fitted. In use the present parting bead or rail does not extend integrally from the top to the bottom of the window, but is divided between the upper and lower sashes as seen at 18, the upper and lower portions being arranged in reverse relation with respect to each other, *i. e.*, as shown in Fig. 1, the cushion strip 15 being disposed to face outward for coöperation with the upper sash while as seen at 15′ the lower bead portion has its cushion strip facing outward to cooperate with the lower sash. Thus a cushion strip with a resilient backing afforded by the tongue 12 is presented to engage and press against the edges of the sash at each side of the window, the slight projection of the felt or like material beyond the edge of the bead as seen at 17, causing the cushion strip to be pressed firmly yet yieldingly against the edge of the sash along the entire extent thereof.

In Fig. 5 I show a form of the invention wherein the parting bead 10′ is produced

of sheet metal pressed or molded to the required shape, *i. e.*, presenting substantially the same outlines as in the wood construction already described and having a similar resilient tongue 12′ with a cushion strip 15′ applied thereto and held thereby, the edge of the bead portion 16′ being rabbeted as described to make room for the cushion strip which projects slightly therebeyond similarly as in the first described form. The invention is thus capable of embodiment in different specific forms without departing from the spirit or essential attributes thereof, the prime essential in a broader aspect being provision for applying a cushion strip of suitable material to the side of a parting bead or rail and with a backing or mounting permitting a substantial degree of resiliency to the surface of such cushion strip which presses against the edge of the window sash. I therefore desire the present embodiment to be considered in all respects as illustrative and not restrictive reference being had to the appended claims rather than to the foregoing description to indicate the scope of the invention.

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

1. A parting bead, composed of a one-piece wooden rail with a solid and non-resilient inner portion adapted to be set into a recess in a window frame and a resilient tongue projecting outward from said solid portion and integral therewith, said tongue having a cushion strip fixed at one side thereof and extending the length of the bead to constitute a weather strip, said resilient tongue serving as a sash retaining means, and said inner solid portion having another projection outward therefrom at the opposite side of said tongue from said cushioning strip to serve as a guard and protector for said tongue.

2. A parting bead, composed of a one-piece rail with a rigid inner portion adapted to be set into a recess in a window frame and a resilient tongue projecting outward from said rigid portion with a cushion strip fixed at one side thereof and extending throughout the length of the bead to constitute a weather strip, said resilient tongue adapted to serve also as a sash retaining member.

3. A parting bead, composed of a rail having an inner solid portion symmetrical as to the two sides thereof, so that it may be set either end up in a recess in a window frame with a resilient tongue projecting from a transversely intermediate portion of the rail outward, said tongue having a cushion strip fixed thereto and extending throughout the length of the bead to constitute a weather strip, said resilient tongue adapted to serve as a sash retaining member for coöperation with either upper or lower window sashes.

In testimony whereof I have signed my name to this specification.

WARREN W. COLE.