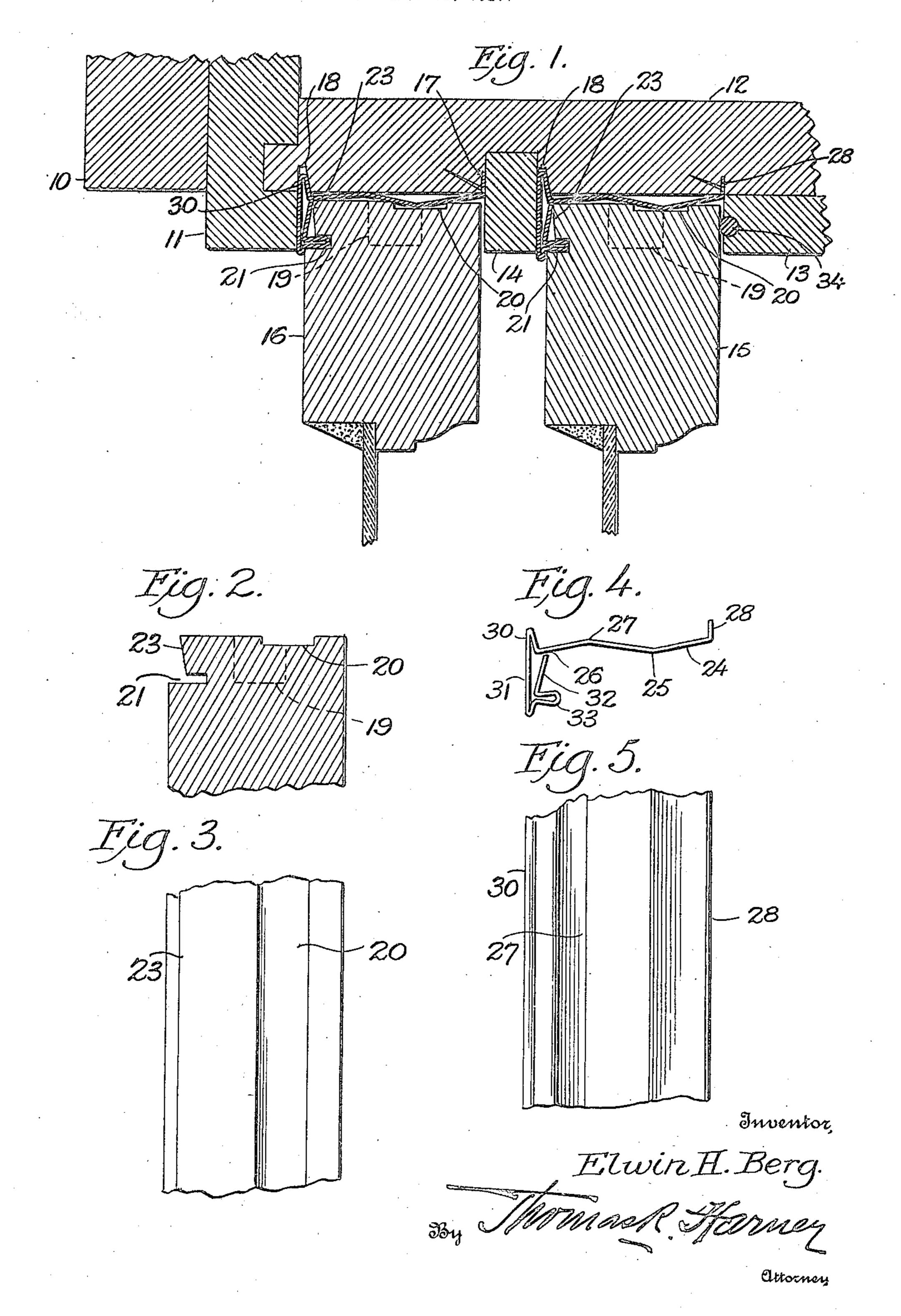
E. H. BERG. WEATHER STRIPPING. FILED SEPT. 12, 1921,



## STATES PATENT OFFICE.

## ELWIN H. BERG, OF EVERLETH, MINNESOTA.

## WEATHER STRIPPING.

Application filed September 12, 1921. Serial No. 500,124.

To all whom it may concern:

5 Louis and State of Minnesota, have invent- these slideways with a vertical slit 17 and 60 ed certain new and useful Improvements in a vertical V-shaped slot 18 for a purpose to Weather Stripping, of which the following be presently described. is a specification.

15 1,400,206.

tion is the provision of certain improve- its outer side. ments by which to provide for the exclusion The weather strip proposed by my invenof weather, allow for a maximum range of tion has a body 24 which is transversely 20 expansion and warping of sashes, permit corrugated to provide a pair of humps 25 75 of ready removal of the sash without dis- and 26 for engagement with the outer side turbing the stripping, and provide for of a sash between which and the sash frame ready sliding movement of the sash when or pulley stile 12 the body is disposed, as in place.

for certain improvements upon the device stile between the humps 25 and 26. The of my application above referred to as will body 24 is provided along its inner vertical be seen by reference to the following de- edge with a laterally and outwardly deflect-

30 the latter of which,

side of a window casing and the sashes ceive nails or other fastening members 29 therein showing the practical application of which are driven into the sash frame or my invention,

Figure 2 is a cross section through a porthe same cut to receive my improved weather to form a laterally outstanding V-shaped stripping,

40 tion of the sash shown in Figure 2,

strip removed, and

Figure 4.

ure 1 of which the outside casing appears and that the extension 31 has an inwardly at 10, the blind stop at 11, the pulley stile projecting and reverting lip 32 whose inner at 12, the inside stop at 13 and the parting end extends into close proximity to the 50 strip at 14, the latter of which forms a body 24 and is provided with a tongue 33 105 stop for the inner lower sash 15 in the same formed by bending this lip upon itself, the outer upper sash 16.

the inner stop 13 and parting strip 14 and Be it known that I, Elwin H. Berg, a between the latter and the blind stop 11, and citizen of the United States of America, the pulley stile 12 is provided adjacent to residing at Everleth, in the county of St. the inner and the outer sides of each of

Each of the sashes 15 and 16 has at its My present invention relates generally to opposite sides the usual sash cord grooves 10 weather stripping and more particularly to indicated at 19 and each is provided at its 65 a metal weather stripping of the type de- opposite sides in accordance with my inscribed and claimed in my application No. vention with a vertical slot 20 shown par-428,029 which was filed December 3, 1920, ticularly in Figures 2 and 3 and each also and patented December 13, 1921, Patent No. has a slot 21 at each of its opposite sides in its front face and is cut away slightly 70 The primary object of my present inven- on a bevel as at 23 between its slot 21 and

well as a hump 27 turned in an opposite As a whole my present invention provides direction to engage the sash frame or pulley 80 scription and the accompanying drawing in ed flange 28 to extend into the vertical sash frame slit 17. this flange having apertures at 85 Figure 1 is a cross section through one vertically spaced points therealong to restile.

At its opposite side the body 24 of the 90 tion of one side of one of the sashes showing weather strip is bent upon itself or doubled tongue 30 to project into the V-shaped slot Figure 3 is an outer side view of a por- 18 of the sash frame, the outer wall of which V-shaped tongue has an extension 31 pro- 95 Figure 4 is an end view of the weather jecting approximately at right angles to the plane of the body 24 and inwardly there-Figure 5 is a side view of a portion of beyond. From an inspection of Figures 1 and 4 in particular it will be noted that the Referring now to these figures I have tongue 30 projects approximately at right 100 shown portions of a window casing in Fig- angles to the body 24 beyond its outer face way that the blind stop 11 functions for the said tongue 33 projecting approximately parallel to the body 24.

The sides of the sashes 15 and 16 move By referring particularly to Figure 1 it 55 vertically in slideways respectively between will be noted that the tongue 30 is disposed 110

by virtue of the yielding movement between lel to the body. the two side walls of the tongue, the body 2. A metal weather strip comprising a 5 side of the sash and the stile, the latter of sitely presented sash and window frame engroove 20 of the sash.

10 projecting at right angles to the body, abuts tongue and an extension integral with the the blind stop 11, while the inwardly projecting tongue 33 extends into the forward 15 vertical slot 21 of the sash and the lip 32 lays against the surface of the beveled por-

tion 23.

The strip proposed by my invention is secured only at one point that is where the 20 flange 28 enters the sash frame, leaving the strip otherwise entirely free and flexible in side action as well as free to move as the sash shrinks or swells. Furthermore with the understanding that the weather strip is 25 formed of a flexible elastic material it is obvious that it will, on account of its tongue entering the front slot of the sash, be firmly held at its several points of contact with the sash, regardless of the movement of the 30 latter.

more frequently moved lower sash it may be 35 desirable to partially embed a steel wire or the like 34 along the adjacent face of the inner stop 13 so that it will be engaged by the inner face of the sash 15, permitting the latter to move more freely and with less friction than if flatwise engaged by the stop itself. This is particularly desirable and an effective protection against binding of the lower sash due to painting, which so frequently renders movement of the sash diffi-45 cult if not impossible.

I claim:

1. A metal weather strip comprising a transversely corrugated body having oppositely presented sash and window frame en-50 gaging humps intermediate its side edges, said body having window frame engaging means along one side edge and havshaped tongue and an extension integral said extension. 55 with the tongue, projecting at right angles to the body and beyond the opposite side of signature. the body with respect to the tongue, said extension having an inwardly projecting

in practice within the stile groove 18 so that sash engaging tongue approximately paral-

24 can flatten out more or less between the transversely corrugated body having oppowhich is engaged by the hump 27 of the gaging humps intermediate its side edges, body with the hump 25 projecting into the said body having window frame engaging 65 means along one side edge and having at It will also be noted that the extension 31, its opposite side edge an angular V-shaped in flatwise relation the stop forwardly of the tongue, projecting at right angles to the sash, namely either the parting strip 14 or body and beyond the opposite side of the 70 body with respect to the tongue, said extension having an inwardly reverting lip projecting toward and contiguous to the respective side edge of the body and provided with a sash engaging tongue.

3. A metal weather strip including a body having anchoring means along one side edge and having at its opposite side edge an angular extension provided with a sash engaging tongue projecting therefrom parallel to the 80 body and terminating in a free sash engaging lip spaced from the extension and projecting inwardly beyond the said tongue.

4. A metal weather strip comprising a body portion having anchoring means along 85 one side edge and having oppositely presented sash and window frame engaging humps between its side edges, said body hav-In the case of the upper sash 16 it is ordi- ing an angular extension at its opposite side narily sufficient that it abut at its inner face edge provided with sash engaging means, 90 the parting strip 14 but in the case of the and a V-shaped tongue between the body and its said extension the side walls of which are movable toward and away from one another in use and permit lateral yielding of the body with respect to the extension.

5. A metal weather strip comprising a body portion having anchoring means along one side edge and having oppositely presented sash and window frame engaging humps between its side edges, said body having an 100 angular extension at its opposite side edge provided with sash engaging means including a laterally projecting tongue and an inwardly reverting terminal lip, and a Vshaped tongue between the body and its said 105 extension the side walls of which are movable toward and away from one another in use and permit lateral yielding of the body with respect to the extension, said V-shaped tongue projecting beyond the relatively op- 110 ing at its opposite side edge an angular V- posite side of the body with respect to the

In testimony whereof I have affixed my

ELWIN H. BERG.