

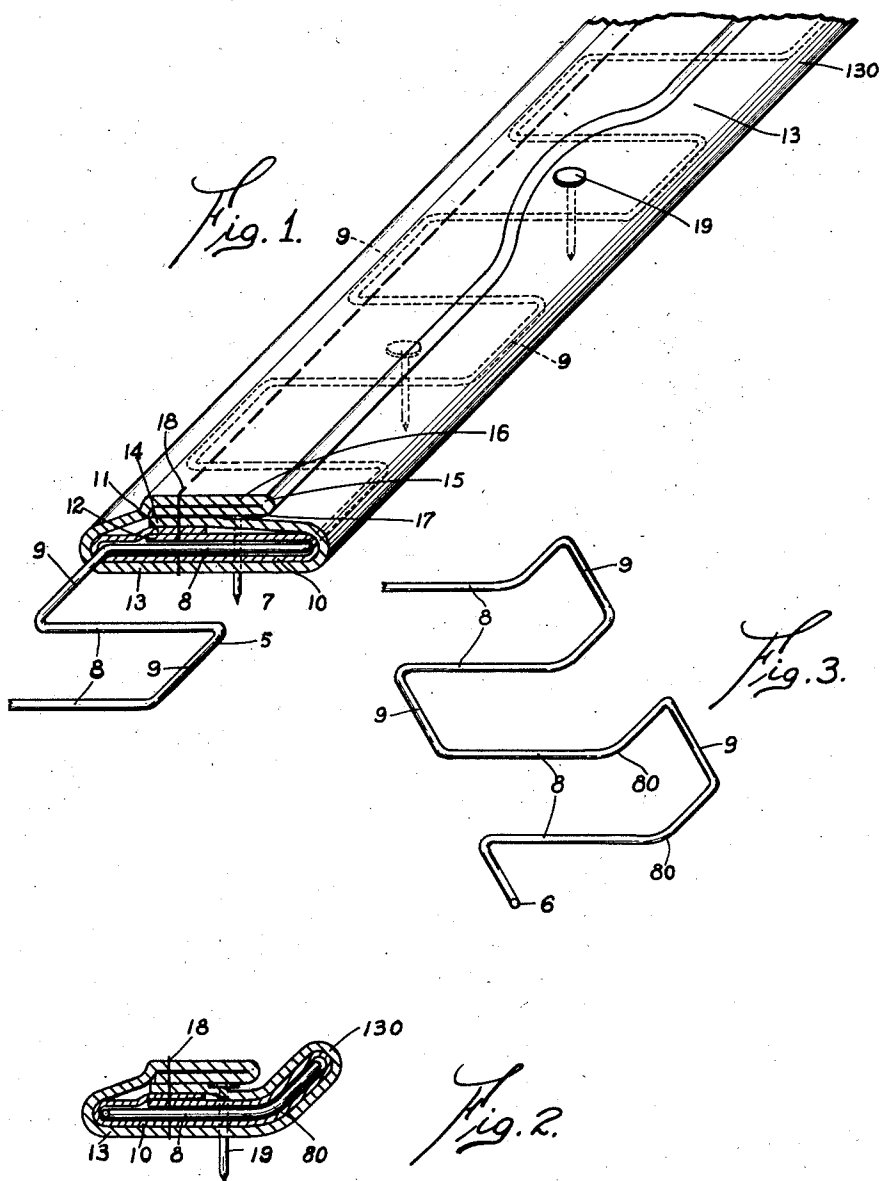
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WEATHER STRIP

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UNITED STATES PATENT OFFICE.

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WEATHER STRIP.

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This invention relates to weather strip material and has for an object the provision of a weather strip which is easily applied and which is neat in appearance.

5 Another object of the invention is to provide a strip of the class referred to which is provided with a resilient core in order to insure positive but yielding contact thereof with a window, door, or other closure.

10 These and other objects are attained by the means described herein and disclosed in the accompanying drawings in which:

Fig. 1 is a perspective view of one form of the weather strip of this invention and showing in dotted lines the resilient core thereof.

15 Fig. 2 is a close-up sectional view of a modified form of a strip of the invention.

Fig. 3 is a perspective view of the resilient core used with the form of strip shown in Fig. 2.

20 The weather strip of the present invention is adapted to rapid machine manufacture and convenient packing and storage after manufacture. A resilient core 5 is preferably 25 formed of thin rust proof resilient wire 6 which is bent into a connected series of U-shaped off sets 7, having spaced parallel arms 8 connected at opposite sides by sections 9, extending at right angles thereto. An elongated strip of water proof paper 10, is folded 30 about the core 5, the overlapping ends 11 and 12 thereof, overlying upon a flat side of the core. The purpose of the paper covering for the core is to prevent the relatively thin wire 35 of the core from becoming twisted and tangled and to make possible the convenient winding of a long strip of the paper covered core upon a reel. The paper covered core is now ready 40 to receive a felt covering 13. This covering 13 is positioned about the covered core by machine and the edge 14 thereof is positioned directly over the overlapping ends of the paper cover. The felt extends across the top of the core and around one edge, thence across the 45 bottom of the core and around the remaining edge thereof, after which it is doubled upon its edge at 15 to provide two thicknesses 16 and 17, which overlap a relatively wide portion of the top of the strip. The plurality of layers 50 of felt and paper are then secured together by a longitudinal row of stitching 18 which extends through each of the overlapping ends of the felt and paper and which is disposed inwardly of one aligned row of sections 9 of the 55 core.

From the foregoing and by reference to

Fig. 1 it will be apparent that the inturned fold comprising the portions 16 and 17 of the felt will normally lie flat upon the structure but may be raised in order to permit securing 60 nails 19 to be driven through the remainder of the strip. These nails will be obscured by the doubled section 16—17, so that the strip when applied to a window will present a neat appearance and will have the fastening means 65 out of sight.

The modified form of strip shown in Fig. 2 is made in the manner heretofore described, the sole difference being in the shape of the core. Referring to Fig. 3 it will be noted that 70 the modified core is first formed as shown in Fig. 1 and that the sections 9 on one side thereof are off set from the remaining sections by uniformly bending the arms 8, intermediate their ends as at 80. This form of strip as will 75 be noted in Fig. 2 has an additional resiliency at its contact edge.

In each of the forms shown the contact edge 130 of the strip is placed toward the sliding 80 window member or toward the swinging door or window so that when such door or window contacts it, the felt will be retained firmly against such door or window. The resiliency of the core insures firm contact but at the same time will yield and accommodate itself to door 85 or window surfaces which may be slightly uneven or somewhat out of alignment.

The operation and application of the strip will be obvious, since it may be used in any of the well known ways of applying weather 90 stripping to doors and windows.

What is claimed is:

1. As a new article of manufacture a weather strip comprising a resilient relatively flat wire core, a paper covering for the 95 core, a strip of felt extending about the paper covering and having a free end inturned and means extending through the felt and paper and overlapping ends of the felt and paper for securing the parts together and retaining 100 them against relative displacement.

2. As a new article of manufacture a weather strip comprising a bent wire core, a felt covering for the core and a turned under 105 portion on the felt covering adapted to be raised for permitting securing means to be driven through the strip and to be concealed by the turned under portion of the felt.

3. As a new article of manufacture, a resilient, flexible core for weather stripping and 110 the like, comprising a section of wire turned upon itself to provide spaced U-shaped por-

tions extending in opposite directions and having alternate turned portions in substantial parallelism one with the other.

4. A resilient, flexible weather strip comprising a wire form-giving core provided with uniform off set portions extending in opposite directions, a strip of felt extending about the core and turned upon itself adjacent one edge for providing a double thickness of felt on one side of the core and stitching extending through the felt and between the core for retaining the parts in position and for providing an overlapping double thickness of felt which may be raised to permit passage of securing means through the remainder of the strip.

5. As a new article of manufacture a weather strip comprising a flexible bent wire core, a covering for the core and a turned under portion on the covering adapted to be raised

to permit securing means to be driven through the strip whereby such securing means are concealed by the turned under portion of the covering.

6. As a new article of manufacture a weather strip comprising a resilient core of relatively thin wire, a thin substantially water-proof covering for the core for protecting the core against moisture and precluding entanglement of the core portions on themselves and a strip covering extending about the core covering and having a free overlapping portion and means extending through the covering for securing the coverings together and precluding displacement of the core relative thereto.

In testimony whereof, I have hereunto subscribed my name this 20th day of October, 1926.

HOWARD D. RANDALL.