Dec. 5, 1939. D. C. BAILEY 2,182,687

WEATHER STRIP

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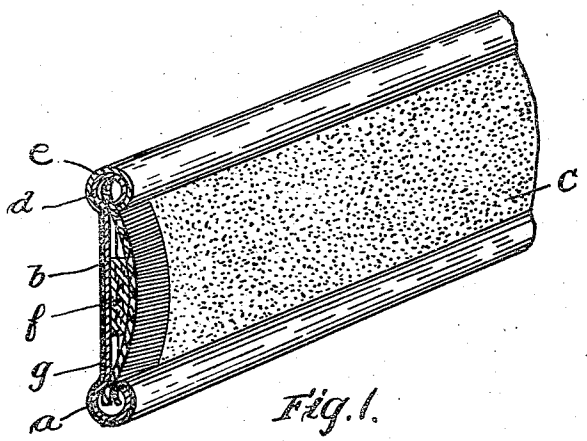


Fig. 1.

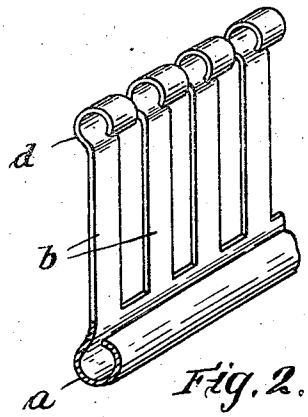


Fig. 2.

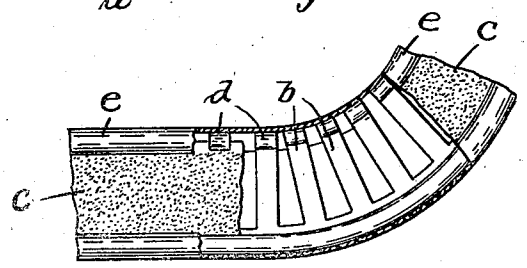


Fig. 3.

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WEATHER STRIP

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Application December 23, 1938, Serial No. 247,337

2 Claims. (Cl. 20—69)

This invention relates to certain improvements on the weather strip, or lining, for window glass channels disclosed in my prior Patent No. 2,058,942, dated October 27, 1936, in which the core, which consists of a strip of sheet metal, is transversely slotted to permit bending in the plane thereof and in which the edge portion of the strip is held in clamping engagement with one edge portion of the cushioning material which is employed, the end portions of the fingers formed in the core by the transverse slots being bent at right angles, and the opposite edge portion of the cushioning material being clamped against the ends of the fingers by an ornamental bead.

When the strip is bent in the plane of its core, the fingers formed by the transverse slots are moved from a parallel to a more or less radial position according to the extent of the curvature, and, as the finish bead is merely bent, and is not increased or diminished in length by the bending operation, it is necessary for the ends of the fingers, which are located within the bead, to move slightly with relation thereto. For this reason with the prior construction while it is necessary to clamp the bead so that it will hold the cushioning material, it is also necessary that it shall not be clamped so tightly that the fingers will be prevented from moving in the bead.

In practical production of this construction it was found difficult to clamp the ornamental, or finish bead to exactly the desired extent, i. e., so that the cushioning material will be securely held and the fingers will be permitted to move in the bead.

The object of my invention is to provide a construction in which the cushioning material will be securely held independently of the finish bead, so that the tightness with which the bead is clamped will not be important, assuming that it will slide readily on the core when the strip is bent and will not be displaced.

I accomplish this object by bending the end portions of the fingers of the core reversely so as to provide a transversely enlarged end portion and clamping the cushioning material between the ends of the fingers and the adjacent portions thereof, so that the material is securely held and a cylindrical edge portion is provided about which the bead may be readily secured.

For a more complete disclosure of my invention reference is now made to the following specification in connection with the accompanying drawing in which:

Fig. 1 is a combined cross sectional and perspective view of an embodiment of my invention.

Fig. 2 is a detail perspective view of the metal core.

Fig. 3 is a plan view, partly cut away, of the strip when bent.

According to my present invention, a metal core is provided which consists of a sheet metal strip having a continuous edge portion *a* and a series of equally spaced, transversely extending tongues *b*. A cushioning strip *c* of mohair, or other suitable material, is arranged on the face side of said core and one edge portion thereof is securely clamped to the core by bending the edge portion *a* reversely so as to clamp the same against the face side of the core, as shown in Fig. 1.

The end portions of the tongues *b* are bent obliquely towards the back edge of the core, and are then bent reversely in curved formation towards the front side thereof, forming an enlarged rounded portion *d* on the end of each tongue. The opposite edge portion of the cushioning material *c* is then securely clamped between the ends of the tongues and the front sides thereof, as shown in Fig. 1.

A U-form ornamental bead *e*, which is preferably formed of stainless steel, is slidably mounted on, and encloses the cylindrical shaped enlarged end portions of the tongues, as shown in Fig. 1, so that it is securely held thereon and yet is free to slide thereon when the strip is bent in the plane of its core, as illustrated in Fig. 3.

A shim strip *f* of felt or other suitable material is preferably proved between the cushioning strip and the core at the middle thereof, as in the previous construction, and a backing *g* of thin textile fabric is clamped at one edge by the reversely bent portion *a* of the core and is extended over the back side of the core, and is adhesively connected thereto, the opposite edge being enclosed by the bead *e*.

As thus arranged the cushioning strip is firmly clamped to the core at each edge, independently of the ornamental bead, and the latter is slidably mounted on, and encloses the ends of the tongues, so that a finished appearance is presented, and it is not necessary to clamp the bead so tightly that the free bending of the strip will be interfered with.

I claim:

1. A weather strip having a core consisting of a strip of sheet metal having one edge portion continuous and bent reversely and having a series of equally spaced tongues extending transversely therefrom, said tongues being bent at their ends towards the back side of the core and then reversely towards the front side thereof, forming

enlarged end portions, a cushioning strip on the face side of the core having one edge portion clamped by the continuous edge portion of the core and having the opposite edge portion clamped between the ends of the tongues and the front sides thereof, and a U-form ornamental bead slidably mounted on and enclosing said end portions of the tongues.

2. A weather strip having a core consisting of a strip of sheet metal having one edge portion continuous and bent reversely and having a series of equally spaced tongues extending transversely therefrom, said tongues being bent at their ends towards the back side of the core and then reversely in curved formation towards the front side thereof to form rounded end portions, a cushioning strip on the face side of the core having one edge portion clamped by the continuous edge portion of the core and its opposite edge portion clamped between the ends of the tongues and the front sides thereof, and a U-form ornamental bead slidably mounted on, and enclosing said rounded end portions of the tongues.

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