

(No Model.)

W. H. COSPER.
WEATHER STRIPPING.

No. 379,208.

Patented Mar. 13, 1888.

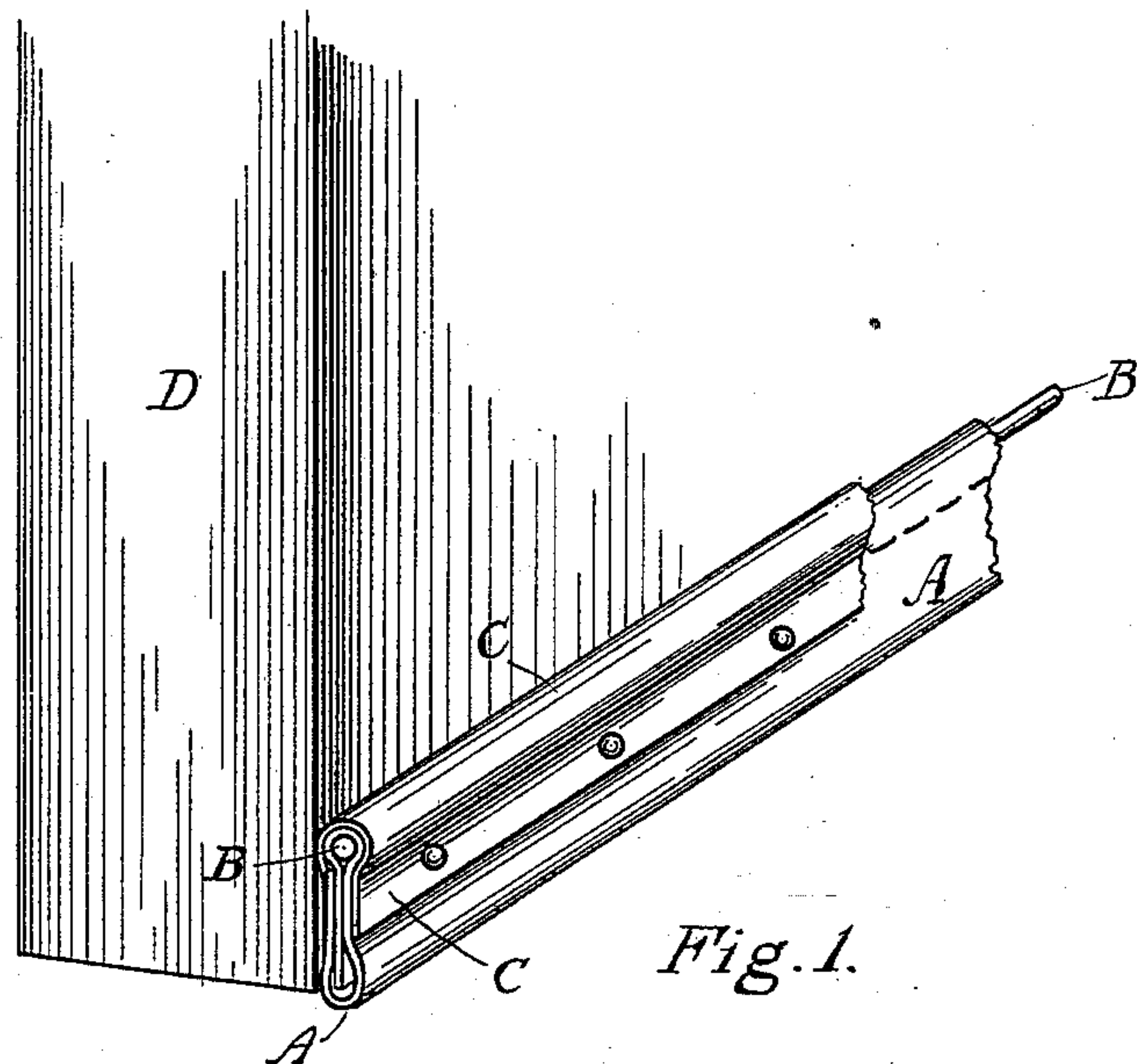


Fig. 1.

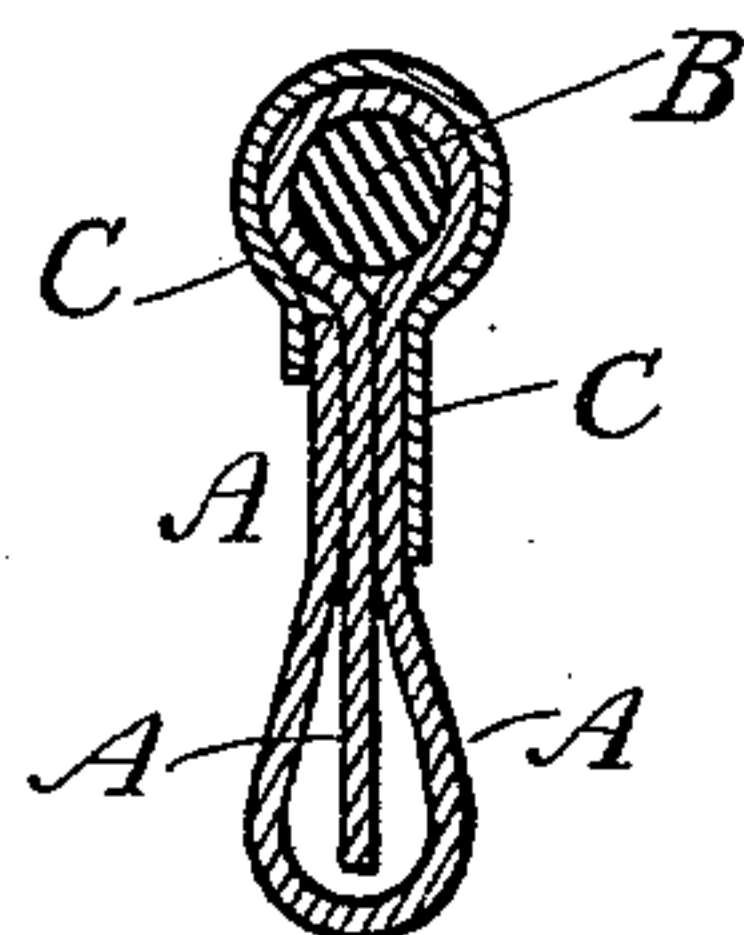


Fig. 2.

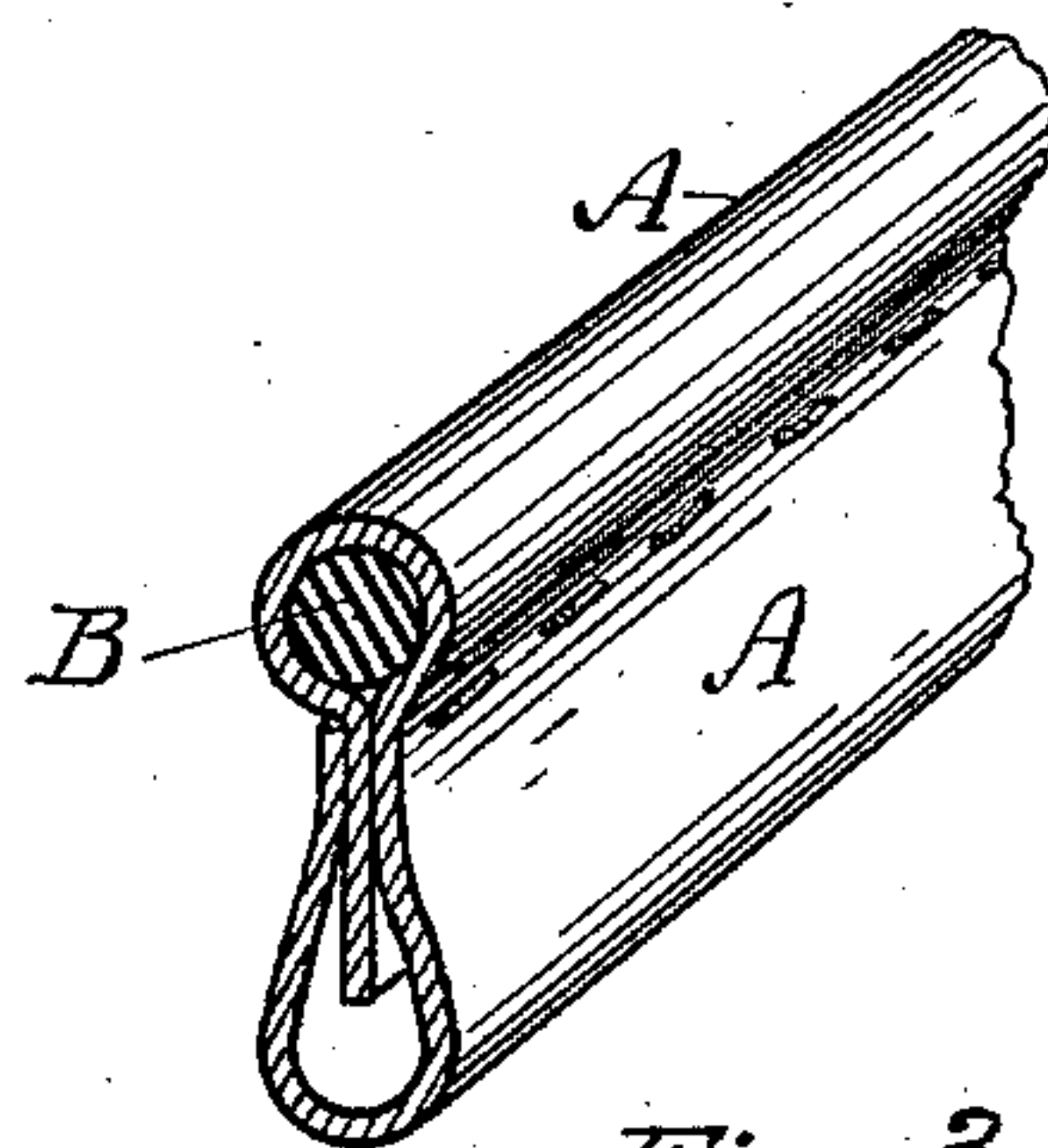


Fig. 3.

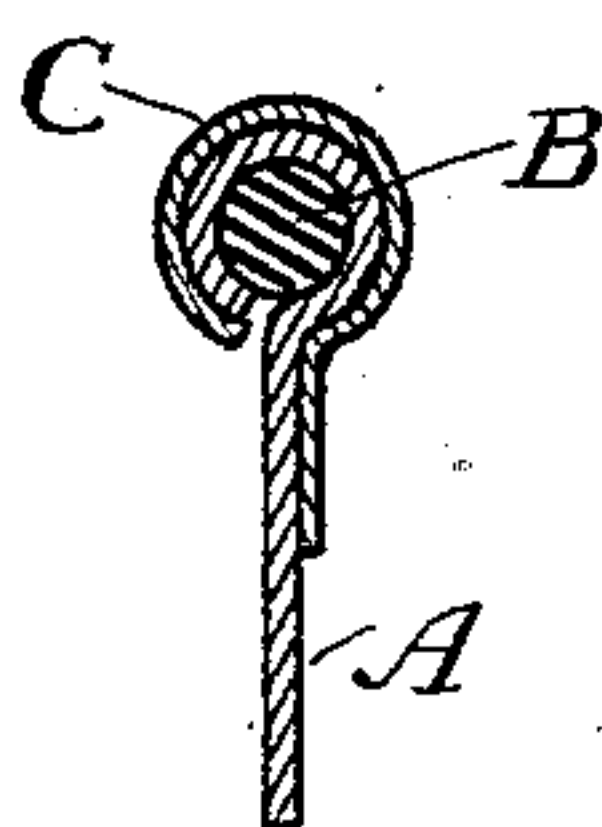


Fig. 4.

Witnesses:
J. B. Halpenny,
Henry Trautman,

Inventor:
William H. Cosper.
By Geo. W. Levin.
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM H. COSPER, OF CHICAGO, ILLINOIS.

WEATHER-STRIPPING.

SPECIFICATION forming part of Letters Patent No. 379,208, dated March 13, 1888.

Application filed May 11, 1887. Serial No. 237,793. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. COSPER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Weather-Stripping, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My present invention relates to weather-stripping of the class mainly employed for closing joints around the doors and windows of structures, and particularly to that class in which an elastic or flexible substance forming the joint-closing element is re-enforced or held by a metallic base.

The object of my invention is to provide a weather-strip both of durable construction and effective operation, which can be economically manufactured and easily applied.

To these ends it consists in the combination and arrangements of the parts composing the weather-strip as follows:

A strip of flexible material, as of rubber or felt, is longitudinally looped around a wire or other filament or suitable device. A thin metallic strip, as of tin, zinc, copper, brass, &c., is formed around the flexible strip, so as to embrace the looped portion thereof, and there-through the said wire or other filament or device also preferably being extended transverse the width of the flexible strip for a distance sufficient to form a rigid base, by means of which the several combined parts are fixed in operative position.

The exact manner of forming the loop of the flexible strip around the wire or other filament or device is immaterial, and the device around which the flexible strip is looped may be of any suitable material and form, provided the same be adapted to longitudinally secure or anchor the strip within the embracing portion of the metallic base.

In the accompanying drawings, Figure 1 is a broken perspective detail illustrating a weather-strip embodying the features of my invention attached to the lower margin of a door. Fig. 2 is a detail illustrating in transverse section the construction of weather-strip shown in said Fig. 1. Fig. 3 is a perspective

detail illustrating, with reference to the construction shown in Fig. 1, the manner in which the flexible strip is looped around the anchoring-wire, elsewhere shown, and otherwise fixed for receiving the metallic strip C. Fig. 4 is a detail in transverse section of the weather-strip, illustrating a modified form of arrangement of the flexible strip A.

In the construction shown in Figs. 1, 2, and 3 the flexible strip A is folded upon itself so as to describe a configuration after the manner of forming the digit 8, being preliminarily fixed in such form preferably by stitching the several folds together, as particularly shown in Fig. 3. Through its upper loop a wire, B, or other equivalent filament or device, is inserted, as shown in the several views, a metallic strip, C, being then headed or formed thereon, so as to fixedly embrace the looped portion of said flexible strip, and therethrough the wire or other anchoring filament or device B, the lower portion of said metallic strip preferably extending downwardly over one side of said flexible strip for a suitable distance, as shown, and desirably forming a substantial base for fixing the combined parts in operative position, which may be accomplished through the employment of tacks or nails, as shown, which pass through the several strips into the surface to which the device is affixed, or by any well-known or preferred means. When in operative position, the lower or free portion of the flexible strip A is arranged and adapted to bear upon the proper surface, and thereby close the joint in connection with which it is employed.

In the modified form of construction illustrated in Fig. 4 the flexible strip A is shown as being simply looped or extended around the anchoring element B, in contradistinction to being folded upon itself, so as to form two loops, as elsewhere herein shown and described, the metallic strip C being adjusted to the several parts in the same manner as illustrated in the other views. By thus combining the said several elements as shown and described—to wit, the filament B within the flexible strip A and the metallic base or embracing strip C exterior of said flexible strip—I am enabled, at a very limited expense, to produce a weather-strip of great durability and of a most desirable form for use.

I am aware that weather-stripping has long been in use wherein a metallic strip has been employed in conjunction with a flexible strip. I therefore do not broadly claim such combination of parts; but,

Having clearly shown and described the features of improvement contained in my invention, I claim and desire to secure by Letters Patent--

10 In weather-stripping, the combination of the

filament B, the flexible joint-closing strip A, looped or formed around said filament, and the metallic base or strip C, formed around said flexible strip, so as to securely embrace said flexible strip and filament, substantially as 15 shown and described.

WILLIAM H. COSPER.

Witnesses:

GEO. W. LEVIN,

MARCH POLK.