

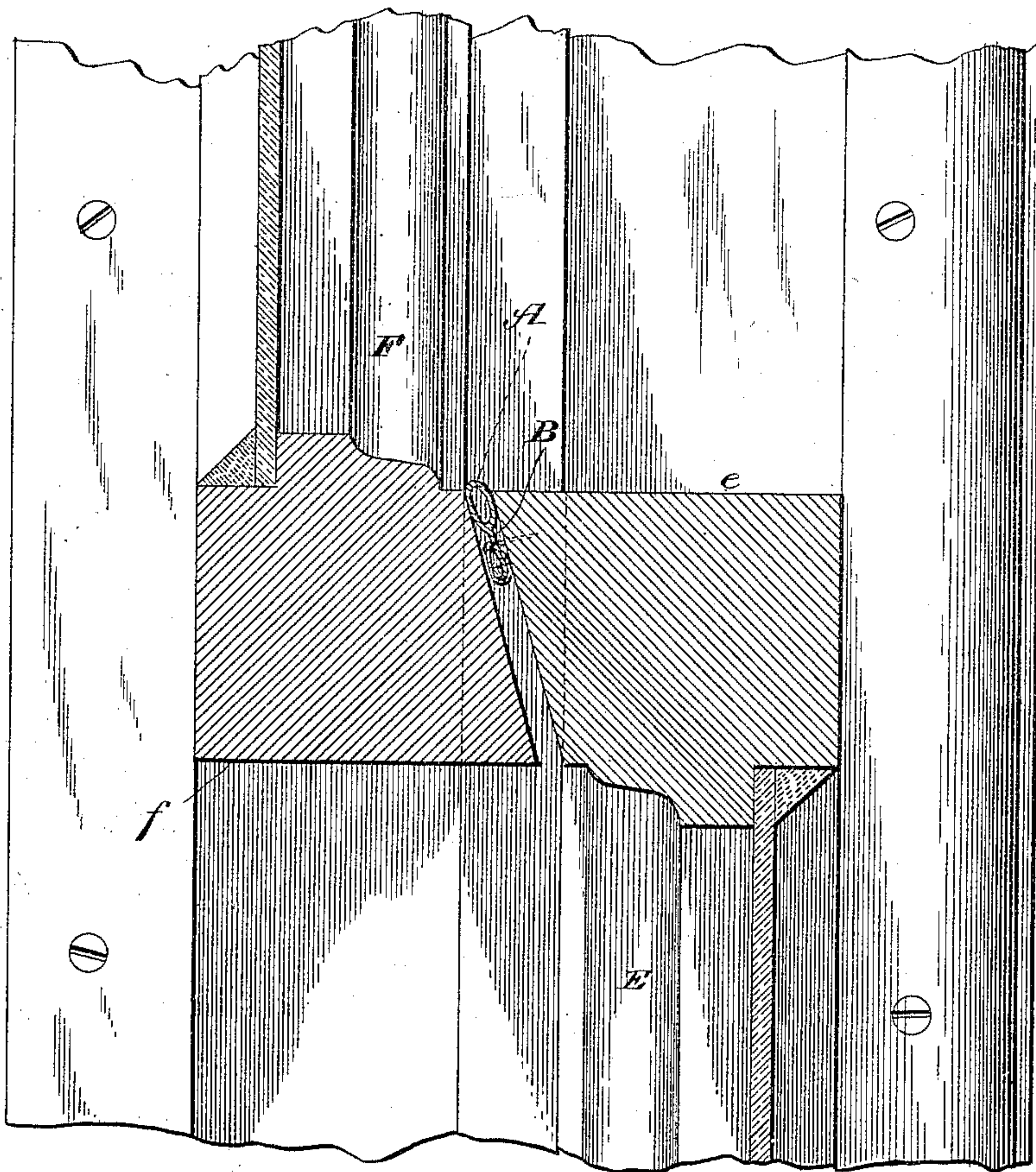
(No Model.)

W. H. COSPER.  
WEATHER STRIPPING.

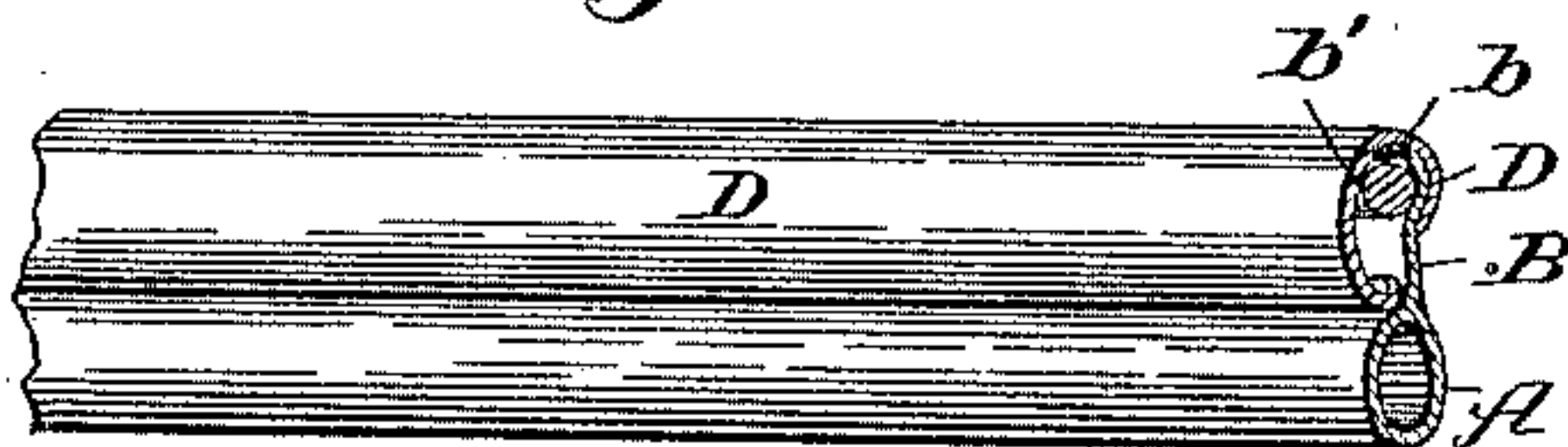
No. 445,544.

Patented Feb. 3, 1891.

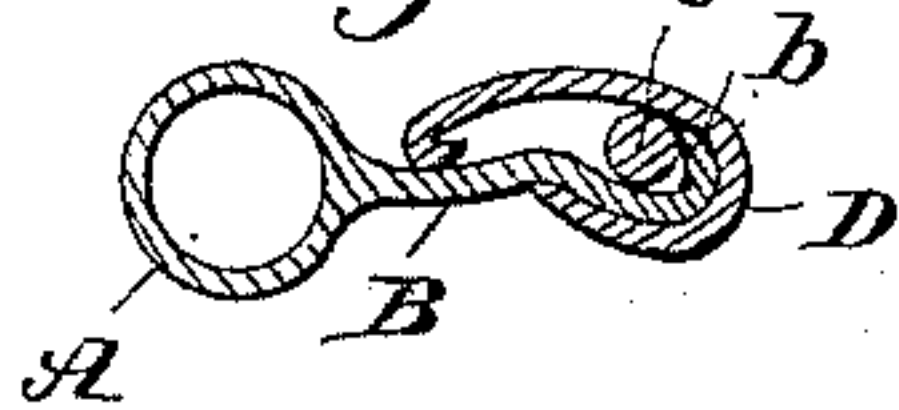
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

Edwin L. Bradford  
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*Fig. 4.*



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INVENTOR

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# UNITED STATES PATENT OFFICE.

WILLIAM H. COSPER, OF CHICAGO, ILLINOIS.

## WEATHER-STRIPPING.

SPECIFICATION forming part of Letters Patent No. 445,544, dated February 3, 1891.

Application filed January 27, 1890. Serial No. 338,320. (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 specification, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to improvements in weather-stripping of the class wherein a flexible element, as of rubber or the like, is employed for closing interstices around windows, doors, &c.

The objects of my improvements are to provide a flexible weather-strip adapted for use with the conjoined employment of a rigid securing-strip or element, and which will at once embrace durability, effectiveness, simplicity, and economy in its employment and construction, the same consisting in the matters hereinafter set forth, and pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a detail, mainly in transverse section, illustrating the manner of employing my improved weather-strip between the meeting-rails *e f* of the upper and lower sash E F, respectively, of the window. Fig. 2 is a broken detail in elevation of my improved weather-stripping. Fig. 3 is a transverse section of the same. Fig. 4 is a detail in transverse section of the flexible strip.

Referring by letter to the said several views, the flexible strip consists of a main or interstice-closing portion A, and a web B. This web B may be formed integral with or suitably to said main portion A, and has at its free end a heel *b*, the purpose of which will be hereinafter explained.

D designates a strip made of metal or other suitable rigid material, which is bent or otherwise suitably shaped to embrace said web B,

and is supervised intermediate the web B, and the head of the nail or other device which secures the strip in position, and said web is fixed within said embracing-strip by means of a filament *b'*. The heel *b* of the web is secured within said embracing-strip inside of the location of the filament therein and thereby prevents the withdrawal of the web from its connection with said embracing-strip. The most desirable material employed in making the said strip is rubber, the same being as pure as the varying conditions of atmosphere, temperature, &c., to which it is exposed will warrant with a view to durability. The main portion A is preferably of hollow cylindrical form, for reasons both of economy in the employment of the material and the greater degree of flexibility which conformation insures in contradistinction to a solid construction.

Having now described my invention, what I believe to be new, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, the herein-described weather-stripping, consisting of a flexible strip having an enlarged main or interstice-closing portion, a web extending therefrom, and having a heel at its free end, a rigid strip embracing said web, and means located between said heel and the main portion of the flexible strip for securing said web and embracing-strip together.

2. As an improved article of manufacture, the herein-described weather-stripping, consisting of a flexible strip having an enlarged main or interstice-closing portion, as A, a web, as B, extending therefrom and having a heel, as *b*, at its free end, a metallic strip, as D, bent to inclose said web, and a filament, as *b'*, for securing said web and metallic strip together.

WILLIAM H. COSPER.

Witnesses:

GEO. W. LE VIN,  
RICHARD H. ROBINSON.