(No Model.)

G. POE & C. ANGUS.

WEATHER STRIP.

No. 456,058. Patented July 14, 1891.

Fig. 1.

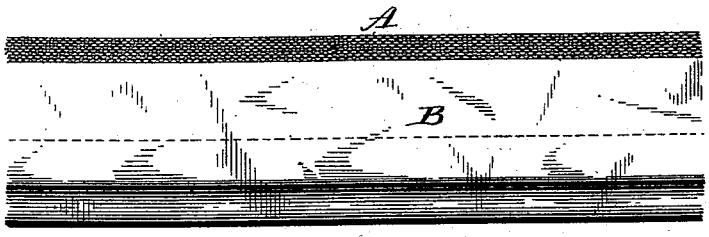
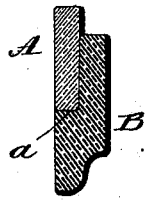


Fig. 2.



Witnesses
L. C. Hills
E. A. Bond

Inventors:
George Poe and Charles Angus.
E. B. Stocking
Attorney

UNITED STATES PATENT OFFICE.

GEORGE POE AND CHARLES ANGUS, OF ALBANY, NEW YORK, ASSIGNORS OF ONE-HALF TO JOSEPH R. NANGLE AND MARCUS S. SIMMONS, BOTH OF SAME PLACE.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 456,058, dated July 14, 1891.

Application filed August 14, 1890. Serial No. 361,964. (No model.)

To all whom it may concern:

Be it known that we, GEORGE POE and CHARLES ANGUS, citizens of the United States, residing at Albany, in the county of Albany, State of New York, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in weather-strips; and it has for its object, among others, to provide an improved weather-strip which shall be cheap, durable, and not affected by the changes of temperature, and which can be readily applied to doors or windows. We form a felt strip with a flexible backing, preferably molded onto the felt. The felt preferably extends beyond the flexible backing, and the said backing may be given as ornamental an outline as desired.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a face view of a piece of weather-strip constructed in accordance with our invention. Fig. 2 is a cross-section through the same.

Like letters of reference indicate like parts in both views.

In carrying out our invention we take a strip of felt or analogous material and unite this to a flexible backing either by one operation by molding or cemented and joined afterward. The flexible backing may be composed of materials which will not be affected by heat or cold and which will retain its flexibility for an indefinite period under any circumstances which it would be ordinarily employed.

The composition we generally employ is as follows: yellow wax, four ounces; gum-shellac, one ounce; resin, three ounces; gum-senegal, two ounces; borax, one ounce; gum-mastic, one ounce; gum-sandarac, four ounces; benzol, from two to six ounces. We dissolve the above in alcohol to make a saturated solution and then evaporate by gentle heat and pour into molds. The amount of benzol determines the consistency of the compound. We wish to be understood, however, as not restricting ourselves to this particular compound, nor to the exact proportions stated, as the same may be varied within certain limits without detracting from the nature thereof.

In the drawings, A is the fabric or felt strip, and B the flexible backing. As shown in Fig. 2, the felt extends beyond the backing at one edge, but is confined in a recess against a shoulder *a* of the backing. This serves to afford better adhering-surfaces, so that the two parts will not be separated in ordinary use. The felt and backing may be shaped separately and afterward united by cement or otherwise joined, or the felt may be placed in the molds and the backing molded onto it, as may be deemed best. The strip may be secured in place by ordinary means, passed through the backing. The composition of which the backing is formed is of such a nature that the said backing will conform to the shape of the parts constituting the joint when brought together.

What we claim as new is—

1. A weather-strip composed of a strip of fabric and a flexible backing molded thereto, the fabric being seated in a recess of the backing and extended beyond the edge thereof, as shown and described.

2. A weather-strip composed of a strip of fabric and a flexible backing secured thereto and composed of the hereinbefore-mentioned ingredients in substantially the proportions specified.

3. A composition for weather-strips composed of borax, wax, gums, and a requisite quantity of benzol, as set forth.

4. A weather-strip having a backing composed of borax, wax, gums, and a requisite quantity of benzol, with a strip of fabric held thereto, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE POE.
CHARLES ANGUS.

Witnesses:
JOSIAH TALLMADGE, Jr.,
JOSEPH R. NANGLE.