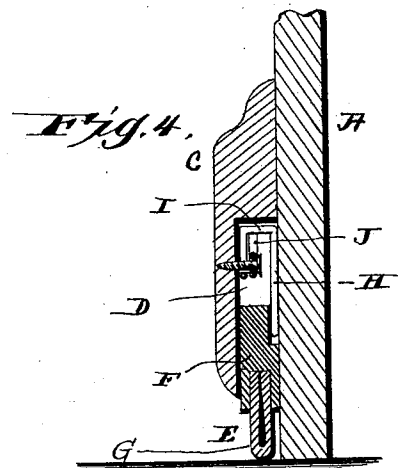
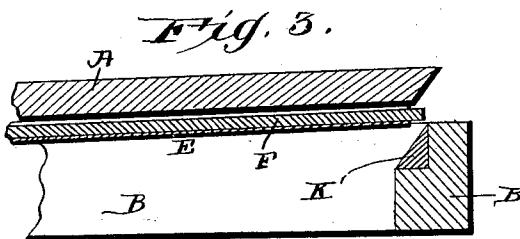
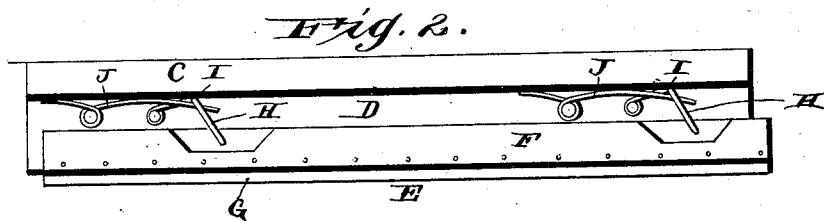
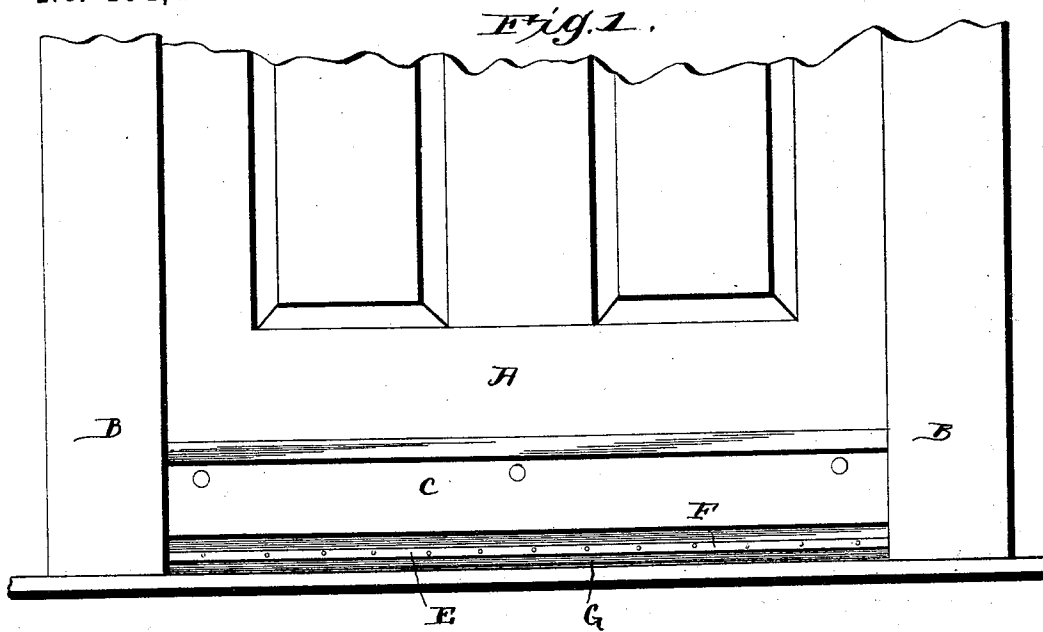


(No Model.)

A. M. STODARD.
WEATHER STRIP.

No. 404,445.

Patented June 4, 1889.



Witnesses,

Frank A. Olsen

R. H. Bishop.

Inventor
Andrew M. Stodard

By *his* Attorneys

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

ANDREW M. STODARD, OF EUREKA, KANSAS.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 404,445, dated June 4, 1889.

Application filed January 4, 1889. Serial No. 295,409. (No model.)

To all whom it may concern:

Be it known that I, ANDREW M. STODARD, a citizen of the United States, residing at Eureka, in the county of Greenwood and State of Kansas, have invented new and useful Improvements in Weather-Strips, of which the following is a specification.

My invention relates to improvements in weather-strips; and it consists in certain novel features, hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front elevation of a door provided with my improved weather-strip. Fig. 2 is a rear elevation of the weather-strip removed. Fig. 3 is a detail horizontal section, and Fig. 4 is a vertical section.

Referring to the drawings by letter, A designates a door of the usual or any preferred construction, supported in the door-frame B in the ordinary manner.

C designates a cap piece or plate which is secured to the side of the door, near the lower end of the same, and is provided with a recess D in its under side. The weather-strip proper E is arranged in this recess D, and consists of a base-strip F, of wood or metal, and a flexible strip G, secured in the lower edge of the same and adapted to press against the door-sill. The weather-strip is supported in the recess by the swinging links or hangers H, which have their lower ends pivoted to the weather-strip and their upper ends pivoted to the cap-plate near the upper end of the recess. The said hangers are provided with a transverse shoulder I at an intermediate point of their length, and springs J, secured within the recess, bear against the said shoulder and tend to hold the weather-strip normally withdrawn into the recess. These springs may be of any desired form; but for cheapness and simplicity I prefer the form shown in the drawings, in which they are each composed of a spring-wire rod having an intermediate portion of its length coiled around a stud or pin in the recess D, and having its opposite ends bearing against the upper end of the recess and the transverse shoulder of the hanger. A cam K is secured to the door-jamb opposite the one to which the door is hinged and at the lower end of the same, and is adapted to act upon the end of the weather-strip to lower the same as the door is closed.

In practice the cap-plate is secured to the

door in the position shown, so that the weather-strip will be just about even with the lower edge of the door. When the door is open, the springs acting on the hangers raise the same, so as to withdraw the weather-strip, as will be readily understood. When the door is closed, the projecting end of the weather-strip will be brought against the cam K and the weather-strip thereby forced inward, the hangers at the same time giving it a downward motion, so that it will be caused to bear upon the door-sill and thereby close the space between the same and the lower edge of the door. As the door is opened the springs will raise the hangers and thereby withdraw the strip.

From the foregoing description it will be seen that I have provided a very compactly-arranged weather-strip, which is thoroughly protected against injury and which is composed of few parts, so that it is not liable to get out of order. The device is entirely automatic in its operation, and owing to its extreme simplicity can be manufactured at a slight cost. Should any one of the parts become worn out or broken, it can be replaced without necessitating the provision of an entirely new weather-strip.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The weather-strip comprising the cap-plate, the strip E, arranged between said cap-plate and the door, the hangers having their opposite ends pivoted, respectively, to the cap-plate and the strip E, and the springs secured to the cap-plate and having their free ends bearing on the hangers, as set forth.

2. The weather-strip comprising the cap-plate having a recess in its rear side, the strip arranged in said recess, hangers supporting said strip within the recess and provided with transverse shoulders, and the springs secured within the recess and having their ends bearing against the shoulders of the hangers, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ANDREW M. STODARD.

Witnesses:

F. W. WALSIN,
H. F. RIZER.