(No Model.) 2 Sheets—Sheet 1.

J. E. JONES.

WEATHER STRIP.

No. 399,413. Patented Mar. 12, 1889.

Fig. 1.

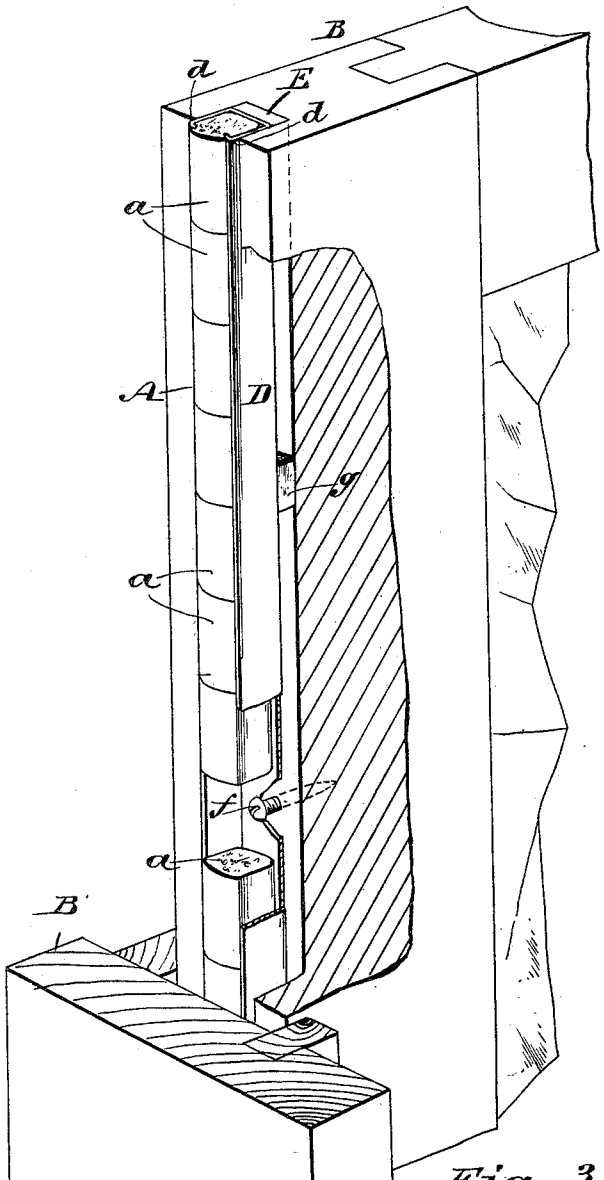


Fig. 2.

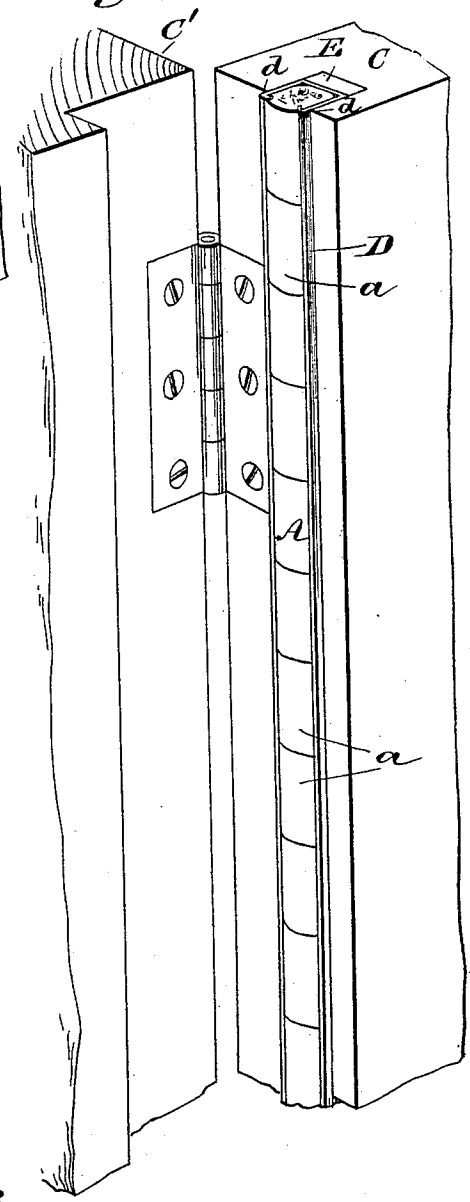
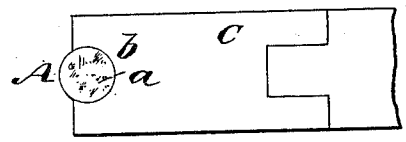


Fig. 3.



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(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

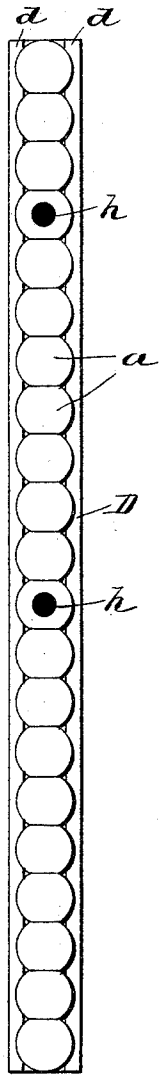
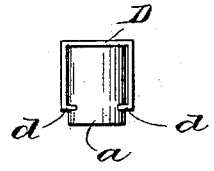


Fig. 5.



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JOHN E. JONES, OF NEW YORK, N. Y.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 399,413, dated March 12, 1889.

Application filed June 7, 1887. Renewed September 1, 1888. Serial No. 284,367. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. JONES, of the city, county, and State of New York, have invented a new and Improved Weather-Strip, of which the following is a full, clear, and exact description.

My invention consists, principally, of a weather-strip composed of or employing cork as the packing material.

The invention also consists of the special construction and application of the weather-strip, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a broken perspective view of a window frame and sash, the latter having my invention applied thereto. Fig. 2 is a broken perspective view of a door-casing and door, showing my invention applied to the door. Fig. 3 is a detailed plan view of a door or window-sash, showing a modified application of the weather-strip. Fig. 4 shows a modification, and Fig. 5 is an end view of the same.

A represents the strip of packing material held at the edge of the window B and door C. This strip is composed of short cylindrical pieces, *a a*, of cork, which may be set in undercut grooves *b*, made in the door or window, as shown in Fig. 3, or held in a casing, D, of metal or other suitable material, which may be set into a groove, E, made at the edge of the door or window, as shown in Figs. 1 and 2. The casing D is by preference made of sheet metal, and made into trough form of somewhat less depth than the thickness of the cork blocks *a*, so that a portion thereof will always be exposed to act in contact with the window-casing B′ or door-frame C′, to exclude water and air. The edges of the casing D are slightly turned inward, as shown at *d d*, to grasp and confine the blocks of cork, and thus prevent them from working out of the casing. The casing D, with the packing-pieces *a* of cork, is held in the groove E by screws *f*, and back of the casing are placed cushions or springs *g*, of metal or blocks of rubber, which constantly press the casing outward and force the cork blocks against the window or door casing, so as to effectually exclude the weather. The screw *f* is not turned home, so that it will not interfere with the movement caused and permitted by the springs or cushions *g*. In some instances the blocks *a* will be placed in the casing D, as shown in Figs. 4 and 5, so that the grain of the cork will stand at right angles to the frame, and so that the friction will be crosswise of the grain; and in order to lubricate the blocks *a*, I shall place in one or more of said blocks small pieces, *h*, of graphite, as shown clearly in Fig. 4.

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

1. As a new article of manufacture, a weather-strip having a compressible and anti-friction surface of cork, substantially as described.

2. The combination, with a door or window, of a weather-strip composed of blocks of cork applied to the edge of the window or door, substantially as described.

3. The combination, with a door or window, of a weather-strip composed of short blocks of cork applied to the door or window, with the ends of the grain at right angles to the edge of the window or door, substantially as described.

4. As a new article of manufacture, a weather-strip composed of a casing, D, and blocks of cork *a*, held therein, substantially as described.

5. The window-sash B, formed with a groove, E, and provided with the cushions *g*, in combination with the casing D, provided with the packing *a* and held in the groove E, substantially as described.

JOHN E. JONES.

Witnesses:
J. M. RITTER,
C. SEDGWICK.