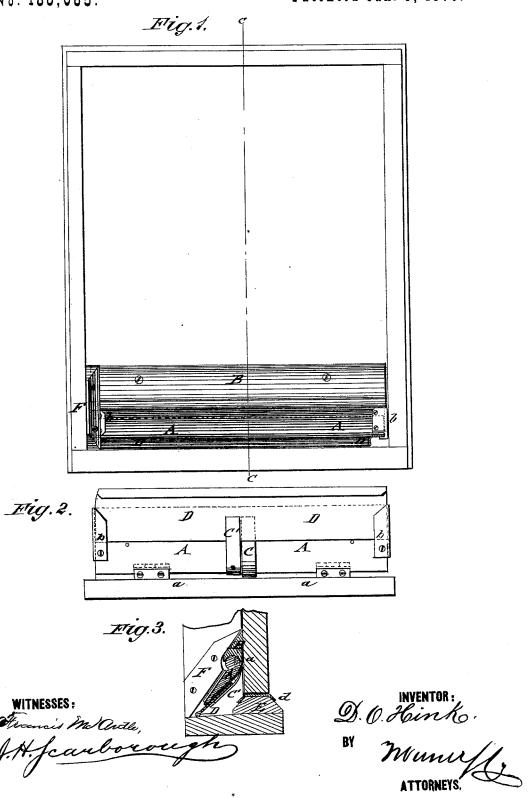
## D. O. HINK.

## WEATHER-STRIP.

No. 186,085.

Patented Jan. 9, 1877.



## UNITED STATES PATENT OFFICE.

DAVID O. HINK, OF MARYVILLE, MISSOURI.

## IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 186,085, dated January 9, 1877; application filed October 30, 1876.

To all whom it may concern:

Be it known that I, DAVID O. HINK, of Maryville, in the county of Nodaway and State of Missouri, have invented a new and Improved Weather Strip, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view of a door with my improved weather-strip; Fig. 2, a bottom view of door and strip, and Fig. 3, a vertical transverse section of the same on line c c, Fig. 1.

Similar letters of reference indicate corre-

sponding parts.

The object of my invention is to provide an improved weather-strip for outside doors, that adjusts itself in automatic manner on the sill, so as to give perfect protection against the entrance of moisture in stormy weather.

In the drawing, A represents a drop with a raised round knuckle, which is attached to a molding or bed piece, B, and applied at suitable distance from the bottom edge of the door. The bed piece B has a concave groove, and is so constructed as to form a projecting lip, in which the knuckles of drop A swing, being held in position by means of hinges a embedded in the knuckle-joint, thus forming a continuous knuckle-hinge. The groove or cavity of the bed-piece and the shape of the knuckle of the drop allow the same to be swung into a nearly vertical as well as horizontal position, without straining or breaking the hinge-connection of drop A and bedpiece B. A band-spring, C, attached to the bed-piece, bears on the drop and raises the same when the door is opened. A similar spring, C', bears on a sliding metallic extension, D, of the weather strip, that is guided in the end caps b, and adjusted according to the height of the so-called carpet-strip E. The carpet-strip is lined either along its en-

tire length, or only at the points where the weather-strip slides when opening or closing the door, with metallic protecting-pieces d, that prevent the wearing of the carpet-strip by the friction of the weather-strip.

A stop, F, that is molded to fit the shape of bed-piece and drop, is screwed in adjustable manner to the lower corner of the doorcasing, as seen in Fig. 3, and bears on the weather-strip when the door is closed, so as to retain the same in locked position, and prevent any chance for the rain or snow, thrown against the weather-strip by the storm, to enter to the inside of the door.

The continuous knuckle-hinge joint of bedpiece and drop prevents any moisture from passing through between them, and sheds the water on the weather-strip and extension-

slide to the inclined sill.

The door is readily opened and closed, the weather strip adjusting itself into position. The weather strip may also be applied to double doors for churches, business houses, &c., in which the stop piece is dispensed with, as the stop of one door adjusts that of the other by means of a metallic plate fastened to the drop of the weather-strip of the stationary door, to adjust that of the swinging

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

A weather-strip, provided with an extensionslide, clamped between the drop and spring, substantially as and for the purpose specified.

DAVID O. HINK.

Witnesses: J. G. GREMS. SAMUEL H. LUTES.