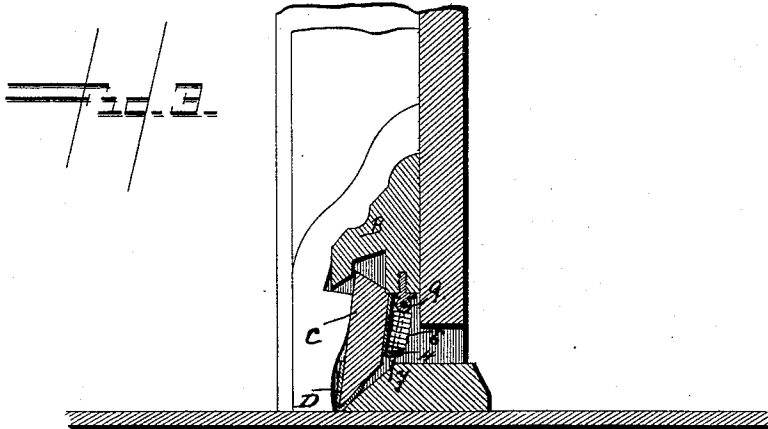
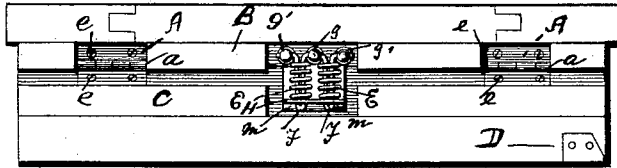
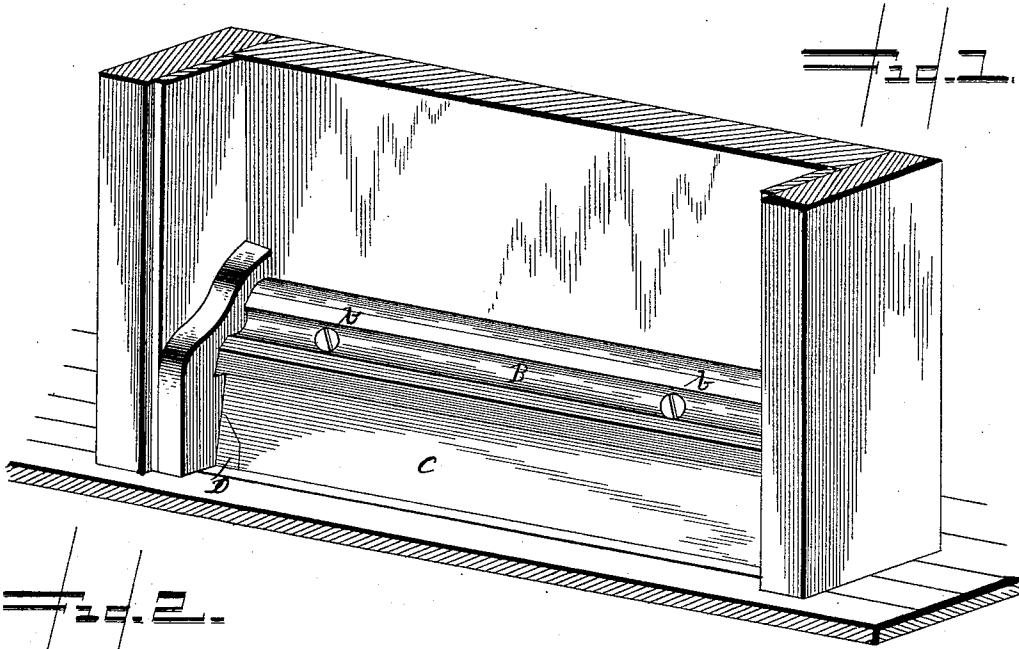


(No Model.)

J. PHILLIPS.
WEATHER STRIP.

No. 484,454.

Patented Oct. 18, 1892.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN PHILLIPS, OF WILLIAMSTOWN, PENNSYLVANIA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 484,454, dated October 18, 1892.

Application filed August 11, 1891. Serial No. 402,347. (No model.)

To all whom it may concern:

Be it known that I, JOHN PHILLIPS, a citizen of the United States, residing at Williamstown, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Improvement in Weather-Strips, of which the following is a specification.

My invention relates to improvements in weather-strips for the doors of houses, by which they will be protected against rain and snow and gusts of cold and dust. I attain these advantages by mechanism illustrated in accompanying drawings, in which—

Figure 1 is a perspective view of my weather-strip attached to the outside of a door in closed position. Fig. 2 is a bottom plan view of a door left unclosed. Fig. 3 is a cross-section of weather-strip attached to the outer side of door, but held closed, the brace thereof coming in contact with the rabbet-strip on door-jamb, made as a guard on the door-jamb, by which the strip is held down in contact with door-sill, the flap of weather-strip being actuated by spiral springs ready to rise when door opens, as shown in Fig. 2.

In the description similar parts having the same offices are lettered alike in all the views.

Letter A denotes hinges which attach the flap C to the molding B by the hinge-pintles a, the hinges being held in place by wood-screws e. The molding is attached to the door by the wood-screws b.

Letters E E denote the spiral springs or helices, made in several coils.

F F are guide-wires arranged in parallel pairs upon supports G G' or knobs affixed to the under side of the molding B. The coils E E are made as tubes or cylinders and are carried on the guide-wires F F. The said wires project through the coils and come out of eyes m m, made in the lower side of the plate H. The coils E E are kept on the parallel wires F F by the keeper-plate H. The guide-wires F F are held by the supports G and G'

on the molding B. The keeper-plate H having a fixed place on the flap C, the inner parts of the guide-wires F F project more or less through the eyes m m, and thus throw up the flap C when left free below at the metal piece D, affixed to the flap C, as shown in Fig. 3. The guide-wires F F are extended from support G to a similar support G' through the cylinder of the coils E E, thus supporting the coils on the wires by aid of the keeper-plate H. The position of the keeper-plate H limits the amount of tension of the springs E E. Two springs are used, that the energy of the springs may be sufficient and that there shall be a reserved force should one of the springs weaken. The keeper-plate H, applied to place on flap C by screws, is made to keep abundant tension on the springs.

The metal piece D is added to flap C to protect it against wear and to readily retract as door closes. The flap C is worked by the spirals E E, which work on the guide-wires F. The said wires are mounted on the knobs g and g' and project through eyes m and are held in place by the metal face-plate H. The strip is actuated by the metal face D, fastened to the flap C, which engages with the rabbeted strip on the door-frame when the door is closed.

I claim—

The weather-strip composed of a basal molding B, attached to the outside of the door by the screws b, in combination with the flap C, worked by the spirals E, which are mounted on the guiding-wires F, secured to the knobs g and g', and have their ends projecting through the eyes m in the plate H, said strip being actuated by the engagement of the plate D with the rabbeted strip on the door-frame, substantially as herein set forth.

JOHN PHILLIPS.

Witnesses:

LINCOLN C. CARL,
WM. D. H. MASON.