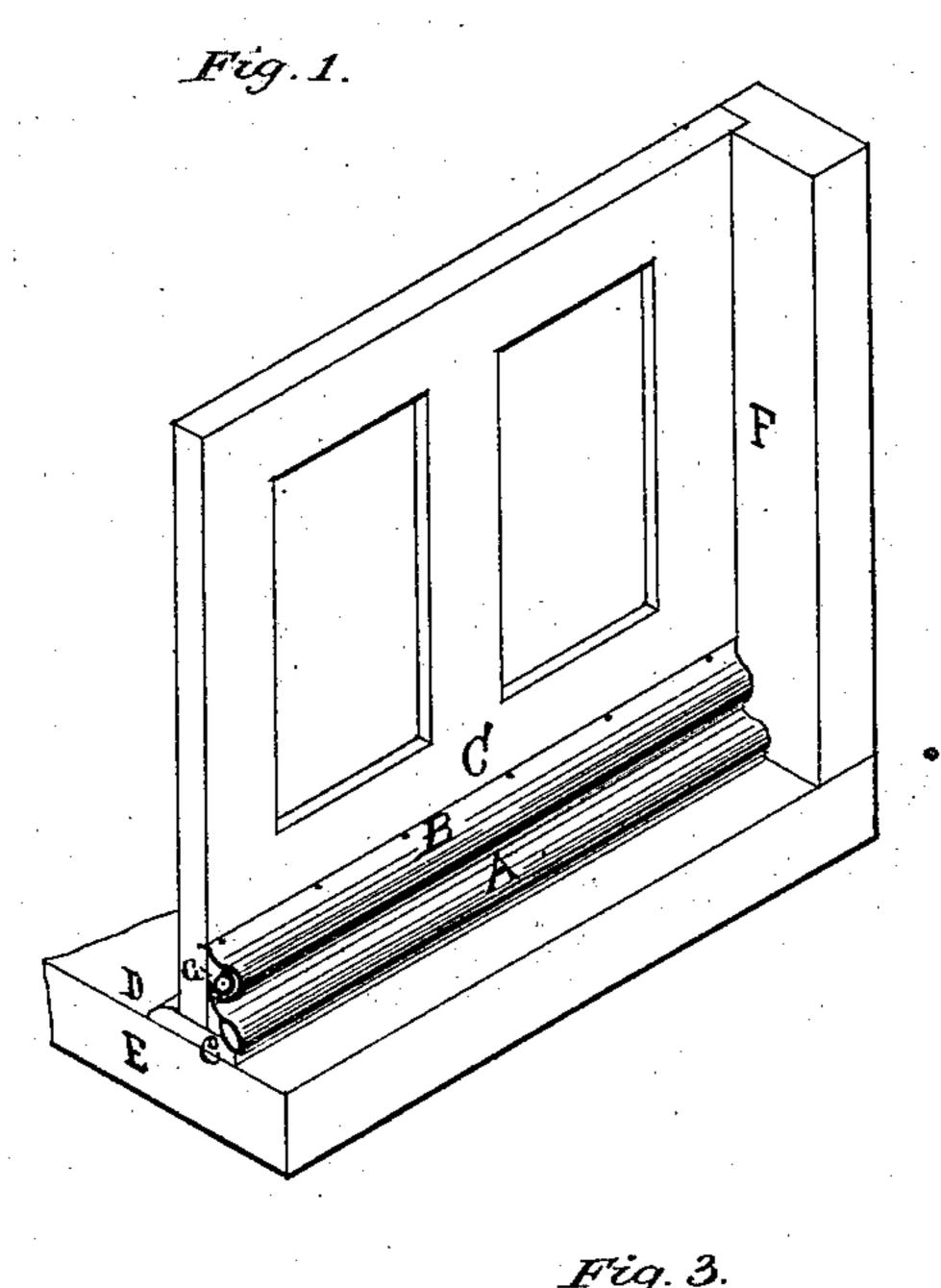
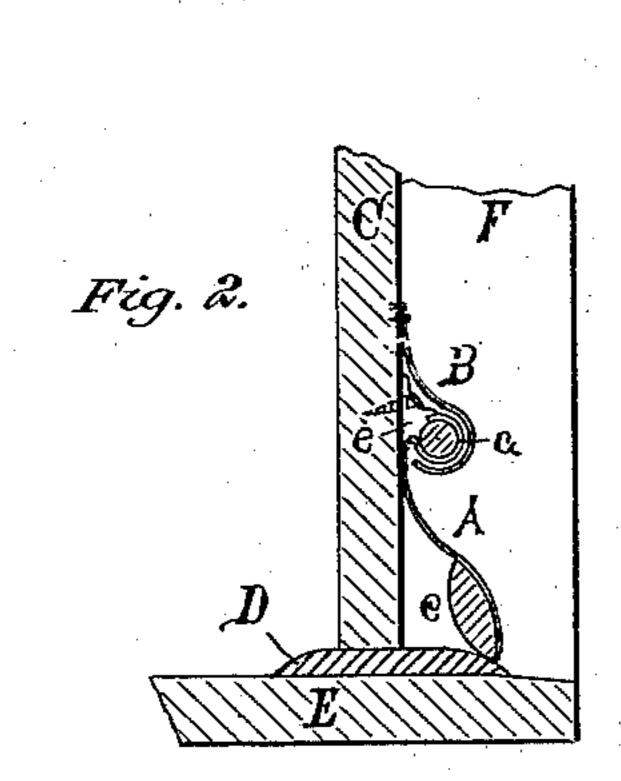
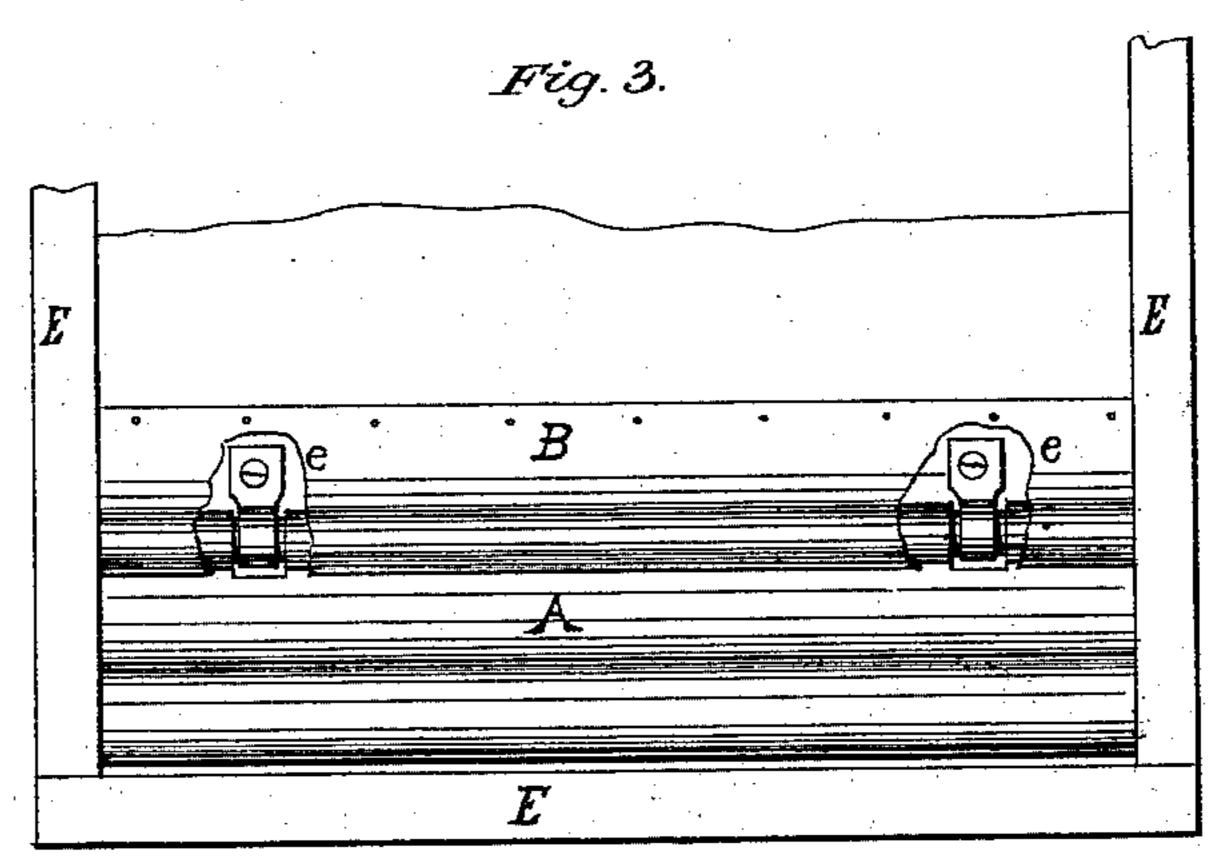
## W. ST. CHARLES. Weather-Strip.

No. 222,095.

Patented Nov. 25, 1879.







M. R. Hotos Mender Showard Bros elo

INVENTOR

ATTORNEYS

## UNITED STATES PATENT OFFICE.

WILLIAM ST. CHARLES, OF WHEELING, WEST VIRGINIA, ASSIGNOR OF ONE-THIRD OF HIS RIGHT TO SAMUEL F. CRAWFORD, OF SAME PLACE.

## IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 222,095, dated November 25, 1879; application filed October 10, 1879.

To all whom it may concern:

Be it known that I, WILLIAM ST. CHARLES, of Wheeling, in the county of Ohio and State of West Virginia, have invented certain new and useful Improvements in Weather-Strips; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to keep out the cold air and prevent the rain and snow from blowing in under the bottoms of the doors and casement - windows; and to accomplish this object I have devised a form of weatherstrip that is neat in appearance, cheap in con-

struction, and effective in operation.

It consists of two pieces of sheet metal molding of peculiar form, one piece of which is hinged at the upper edge to the door, with the other edge, which is stiffened by the attachment of an oval wooden core, resting on the front edge of the carpet-strip, which is made sloping or inclined to permit the stiffened swinging strip to pass over it easily. The other piece is attached firmly to the door above the first piece and projects over the upper edge of the lower piece and interlocks with it and forms a seemingly unbroken piece of molding.

In the drawings, Figure 1 is a perspective view, showing the weather-strip attached to a door; Fig. 2, enlarged section; Fig. 3, front

view.

The letter A represents the swinging piece of molding, the upper edge of which is bent outward and downward from the face of the door around a metal rod, a, a sufficient distance to give it proper play in connection with the upper molding. The rod a forms a fixed pintle for the swinging strip A, and is hinged to the door C by means of two eyelets or hinges, e e, fastened with small screws.

To the lower portion of the swinging strip A is attached an oval-shaped wooden strip, c, which serves the double purpose of deadening the rattle of the sheet-metal strip and stiffen-

ing the edge of the same.

In the construction shown on the drawings, the wooden strip c is fastened to the under

side of the sheet-metal molding with the aid of nails; but the sheet metal can readily be extended around the wooden strip and incase the same, forming an oval-shaped enlargement having a wooden core. Such mode of construction I deem within the scope of my invention.

E is the door-sill; D, carpet-strip; F, door-jamb. B is the top member or hood-molding, the lower edge of which is formed into a roll which encircles the projecting pintle of the swinging strip about two-thirds around, and thus makes a weather-tight joint and permits the lower strip to swing freely.

The top edge of the upper member is turned at right angles and let into a groove in the face of the door and secured in position with the aid of a few tacks along the top edge.

The oval shape given the lower edge of the swinging strip allows it to rise smoothly upon the sloping carpet-strip, pass over it, and drop down closely upon the outer edge of the same and make a weather-tight joint.

The outline of the weather-strip is such that the wind blowing against it has a tendency to hold it down tight to the sill, instead of lifting it up and blowing under, as found to be the case with many strips in use.

In attaching the weather-strip to the door or window, the swinging strip is placed so the lower edge is about three-sixteenths of an inch from the sill proper and rests directly against the front edge of the carpet-strip. The object in this is to keep the drip-water from freezing the weather-strip to the sill.

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

The combination of the swinging strip A, having an oval-shaped enlargement at the lower edge, combined with a wooden core or stiffening piece, with the fixed hood-strip B, adapted to encircle the hinged edge of the swinging strip and make a weather-tight joint, and the sloping carpet-strip D, substantially as herein shown, and for the purposes set forth.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

WILLIAM ST. CHARLES.

Witnesses:

M. R. Hobbs, William W. Wayman.