

J. E. Lindsley,

Threshold,

No 78,980,

Patented June 16, 1868.

Fig. 1

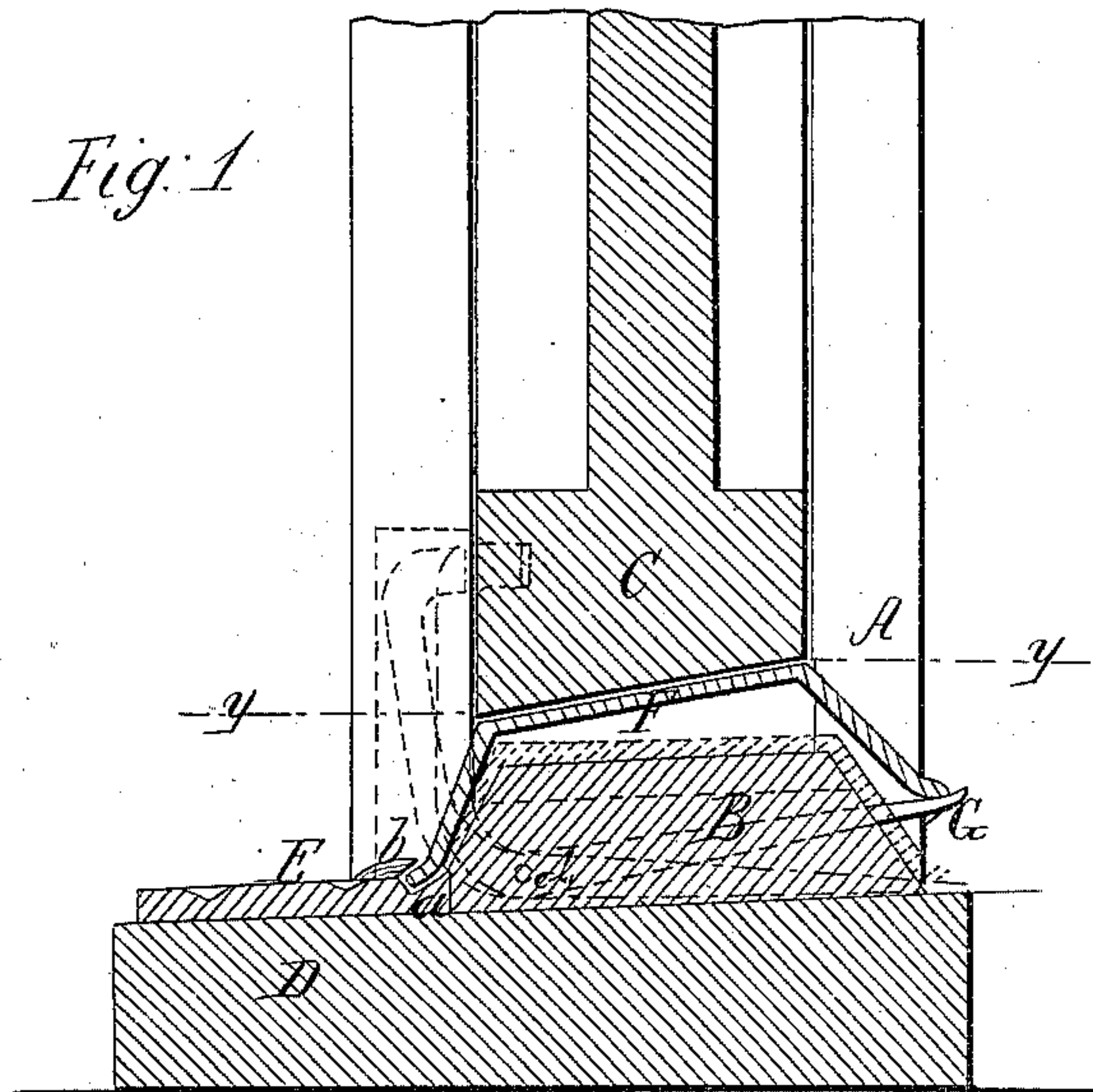
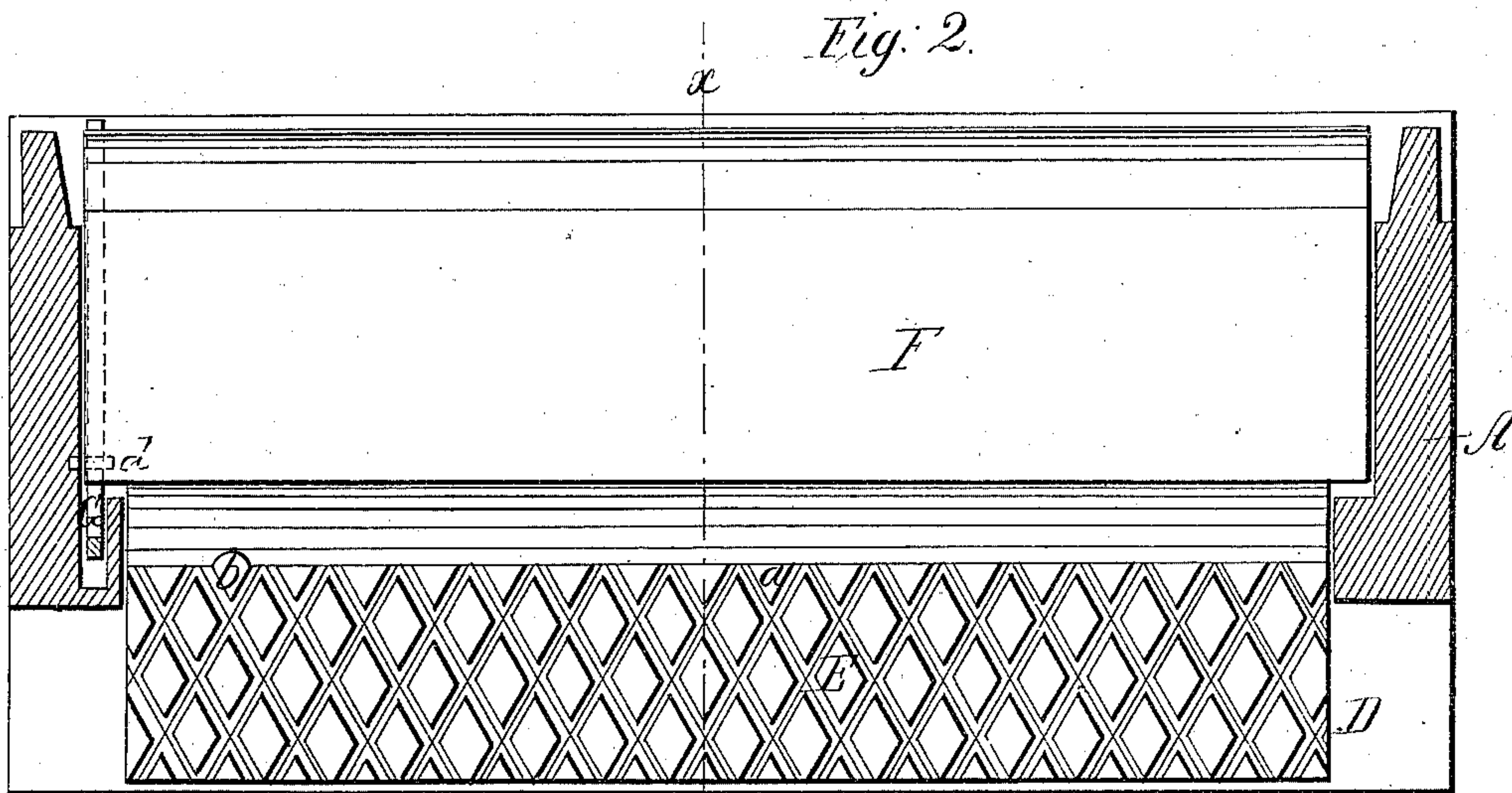


Fig. 2.



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United States Patent Office.

J. E. LINDSLEY, OF GOSHEN, INDIANA.

Letters Patent No. 78,980, dated June 16, 1868.

IMPROVED WEATHER-STRIP.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. E. LINDSLEY, of Goshen, in the county of Elkhart, and State of Indiana, have invented a new and improved Sill and Weather-Strip for Doors; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to a new and improved sill and weather-strip for doors, and is an improvement on a sill and weather-strip for which Letters Patent were granted to me, bearing date June 19, 1866.

This original patented device consists of a fixed metallic strip or cap, placed over the sill of the door, so as to preserve the latter from wear, and also exclude wind and rain.

It is not as efficient as it might be in the latter respect, and the object of the present invention is to obviate that difficulty, and to this end it consists in having the metallic strip or cap arranged and applied to the sill in such a manner as to be movable, and capable of being raised automatically by the closing of the door, so as to fit snugly against the lower edge of the same when closed, and effectually exclude wind, rain, and snow. In the accompanying sheet of drawings—

Figure 1 is a transverse vertical section of the lower part of a door and door-frame, having my invention applied, *x x*, fig. 2, showing the line of section.

Figure 2 a horizontal section of the same, taken in the line *y y*, fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a portion of a door-frame,

B the sill thereof, and

C the door, the latter being hinged to the frame in the usual or in any proper manner.

D represents the outer portion or tread of the sill at the outer side of the door, on the upper surface of which there is secured a metal plate, E. Cast iron will probably be generally used.

This plate is designed to have a grooved or corrugated upper surface, to prevent persons from slipping upon it, and near its inner edge there is a longitudinal groove, *a*, to receive the front edge of a metal strip or cap, F, which is fitted over the sill B, but not bolted thereto, it being merely set over it, and allowed to rise and fall freely to a certain extent, the front edge of the strip or cap which rests in the groove *a*, serving as a bearing for the strip or cap to work in or against, the plate E being provided with lugs *b*, one or more, to retain the strip or cap F in place.

To one side of the door-frame A, at its lower part, there is attached a bent lever, G, which is fitted and works in a recess in the sill B, at one end of the same, and projects beyond the rear part of the strip or cap, as shown clearly in fig. 1.

This lever works on a pivot, *d*, and its upper part extends upward at the side of the frame A in such a manner as to be acted upon by the door C when it closes.

The door, as it closes, strikes the upper end of said lever, and thereby forces the lower part of the lever upward, which throws upward the inner part of the strip or cap snugly against the lower edge of the door, as shown in fig. 1, forming a perfectly weather-proof joint.

When the door is opened, the strip or cap drops or falls by its own gravity over the sill, as shown in red.

The strip or cap will probably be made of cast iron, and it will be seen that the strip or cap will, as in the original device, preserve the wooden sill from wear, but will serve much more efficiently as a weather-strip, owing to the movement allowed it and the means employed to cause it to fit snugly against the bottom or lower edge of the door as the latter is closed.

The plate E also preserves the tread portion D of the sill.

I claim as new, and desire to secure by Letters Patent—

The metal plate E, applied to the outer portion or tread D of the sill, in combination with the metal strip or cap F and lever G, all arranged substantially as and for the purpose set forth.

J. E. LINDSLEY.

Witnesses:

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