

No. 736,286.

PATENTED AUG. 11, 1903.

C. E. MEEKER.
WEATHER STRIP FOR DOORS.

APPLICATION FILED OCT. 27, 1902.

NO MODEL.

Fig. 1.



Fig. 3.

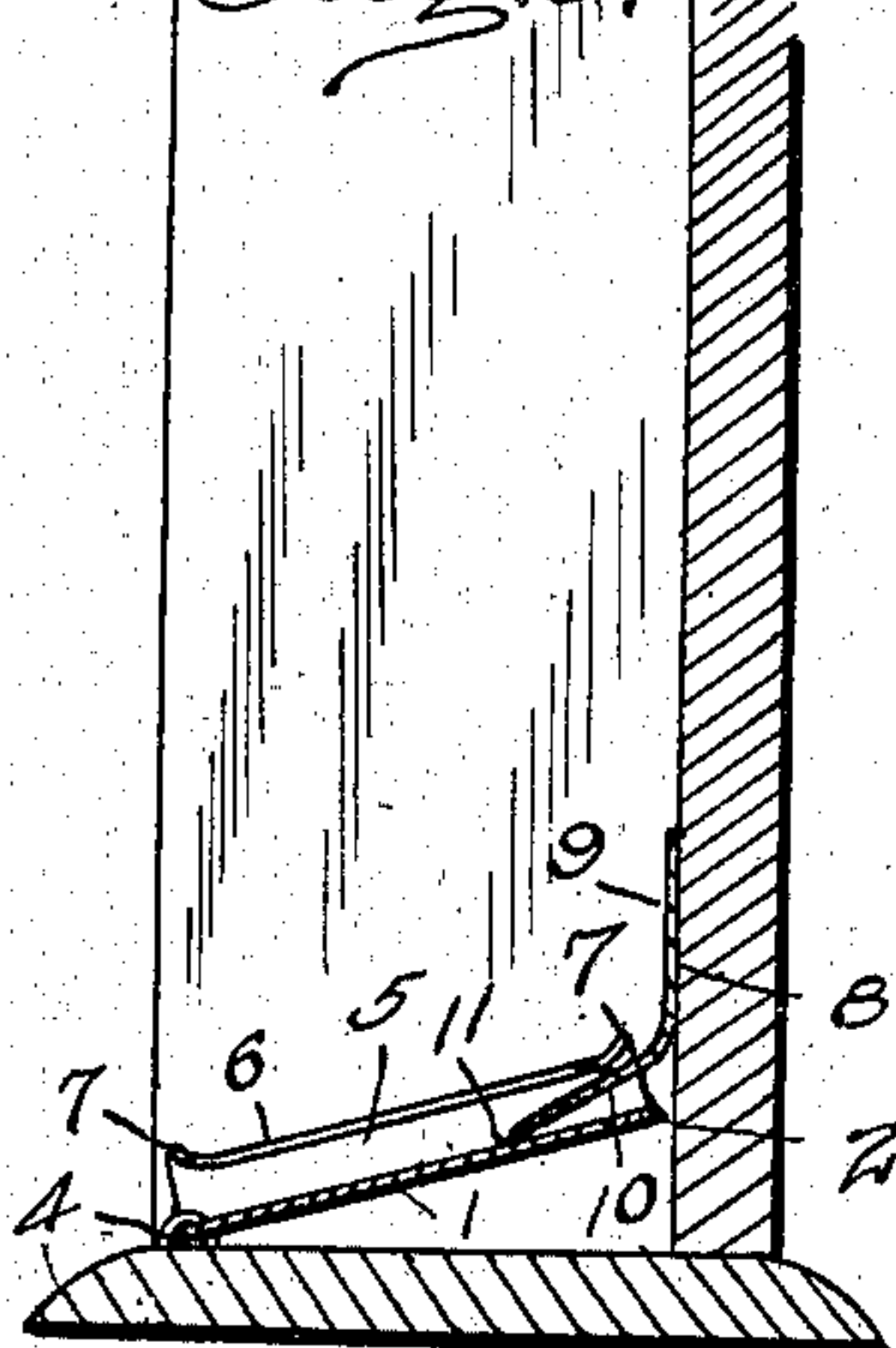
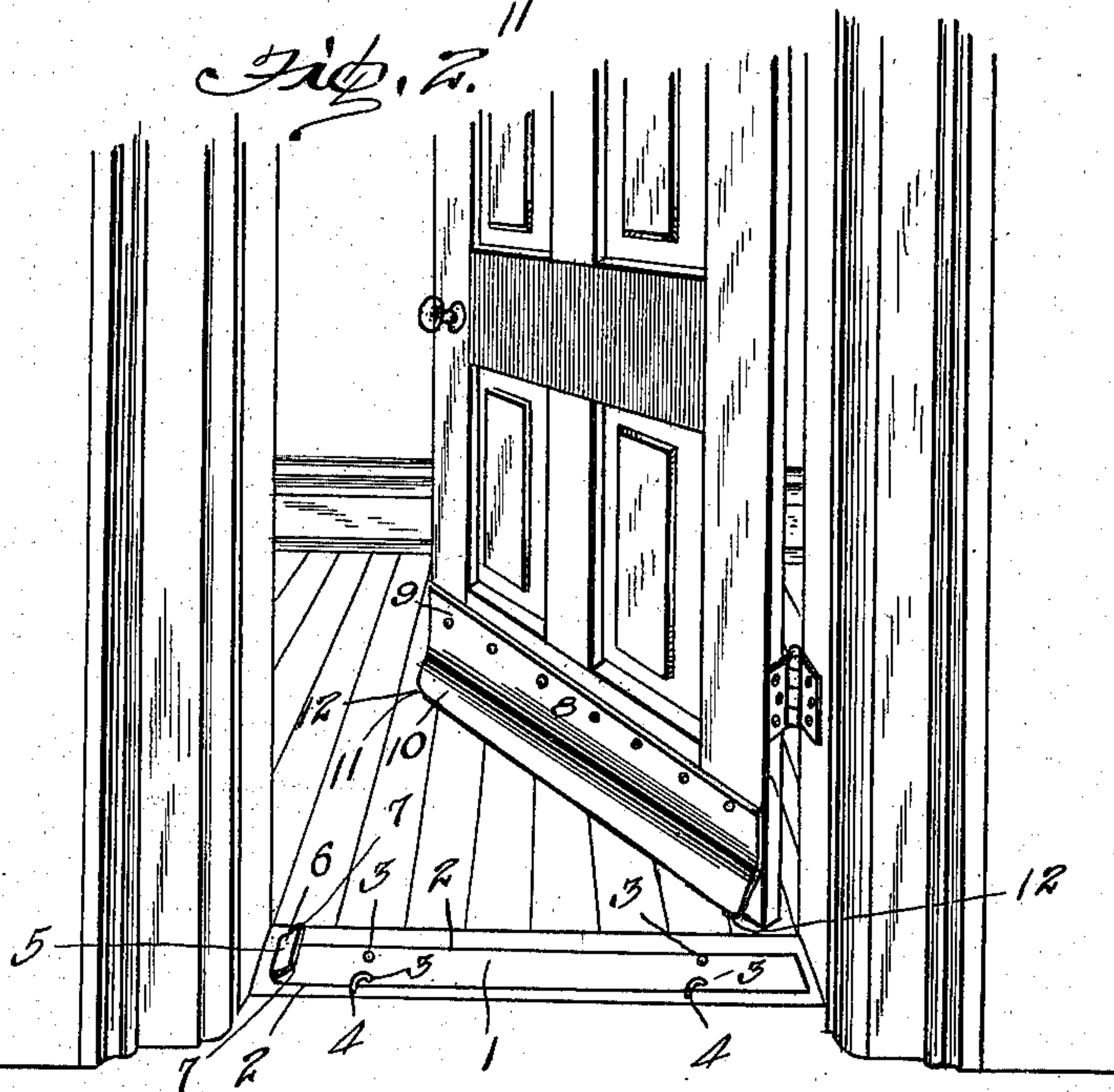


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES E. MEEKER, OF ANN ARBOR, MICHIGAN.

WEATHER-STRIP FOR DOORS.

SPECIFICATION forming part of Letters Patent No. 736,286, dated August 11, 1903.

Application filed October 27, 1902. Serial No. 128,968. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. MEEKER, a citizen of the United States, residing at Ann Arbor, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Weather-Strips for Doors; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention is an improved weather-strip for doors; and it consists in the peculiar construction and combination of devices herein after described and claimed.

One object of my invention is to effect improvements in the construction of the door-plate and the sill-plate which constitute a weather-strip, whereby the same may be used on doors which open either from the right or the left side.

A further object of my invention is to effect improvements in the construction of the door-plate and sill-plate whereby the same may be used on doors which vary in width.

A further object of my invention is to effect economy in the construction of the sill-plate by forming the door-plate-engaging cams thereof integrally therewith.

A further object of my invention is to effect an improvement in the construction of the door-plate and sill-plate whereby a tight joint is effected between them when the door is closed.

In the accompanying drawings, Figure 1 is a perspective view of a weather-strip embodying my improvements, showing the same applied and the door closed. Fig. 2 is a similar view showing the door partly opened, and Fig. 3 is a vertical transverse sectional view taken through the door-plate and sill-plate.

In the embodiment of my improvements I provide the sill-plate 1 on its upper side, at its side edges, with bevels 2 to facilitate the use of a broom and enable dirt to be readily swept over the sill-plate and prevent the same from lodging thereagainst or accumulating under the sill-plate. The sill-plate is provided near its opposite sides with pivot-openings 3, whereby it may be pivoted at either side on a door-sill by means of pivotal staples 4, which latter may be readily driven into the

sill, as may be understood. By providing these openings on both sides of the sill-plate the latter may be used in connection with a door which is hung either on the right or the left hand side. One end of the sill-plate is provided with an extension 5, which is upturned to overlap the same transversely to form a transverse overhanging flange 6. The latter at its opposite sides or ends is curved upwardly to form door-plate-engaging cams 7.

A door-plate 8 has a flattened upper portion 9, which bears against the door and is secured thereto and at its lower side is out-turned to form a flange 10 to overhang and bear upon the upper sides of the sill-plate when the door is closed. The lower outer edge portion of the said flange 10 is downturned to form a lip 11. The lower corners of the door-plate formed by the flange 10 at the ends of the door-plate are rounded or cut away, as at 12, to facilitate their engagement with the flange 6 and the lugs 7 of the sill-plate. When the door is closed, one of the corners 12 of the door-plate engages the under side of one of the lugs 7 of the flange 6 of the sill-plate, thereby causing the latter to be lifted at its inner side and disposed at an appropriate angle with reference to the door-sill to form a watershed which coacts with that formed by the flange 10 of the door-plate. The downturned lip 11 of the flange 10 of the door-plate is of such vertical extent as to be caused by the overhanging flange 6 of the sill-plate to be clamped firmly on the upper side of the sill-plate when the door is closed to effect a weather-tight joint between the door-plate and the sill-plate.

It will be understood from the foregoing that by the provision of the sill-plate with means at both sides thereof whereby it may be pivoted or hinged on the door-sill, and by the further provision of the overhanging flange 6 at one end thereof and the cam at the opposite sides or ends of said overhanging flange, and the further provision of the door-plate with the rounded lower corners 12 my improved weather-strip may be used on doors hung from either side.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my invention will be readily understood,

it is thought, without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of description may be
5 resorted to without departing from the principle or sacrificing any of the advantages of the invention.

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

1. In a weather-strip for doors, a sill-plate having means whereby it may be hinged at either side on a door-sill and provided at one end with an overhanging flange having door-
15 plate-engaging cams at the ends thereof, substantially as described.

2. In a weather-strip for doors, a sill-plate having means whereby it may be hinged at either side on a door-sill and provided at one
20 end with an overhanging flange formed integrally therewith having door-plate-engaging

cams at the ends thereof, substantially as described.

3. A sill-plate having means whereby it may be hinged on a door-sill and provided at
25 one end with an overhanging flange having a door-plate-engaging cam at one end thereof, in combination with a door-plate having an outturned downwardly-inclined flange
10 adapted to engage the under side of said over- 30 hanging flange at the cam end thereof, to raise one side of the sill-plate, and to bear on the upper side of the sill-plate when the latter is raised, substantially as described.

In testimony whereof I have hereunto set
35 my hand in presence of two subscribing witnesses.

CHAS. E. MEEKER.

Witnesses:

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