(No Model.)

D. B. KINGSBURY.

WEATHER STRIP.

No. 301,501. Patented July 8, 1884.

Fig. 1.

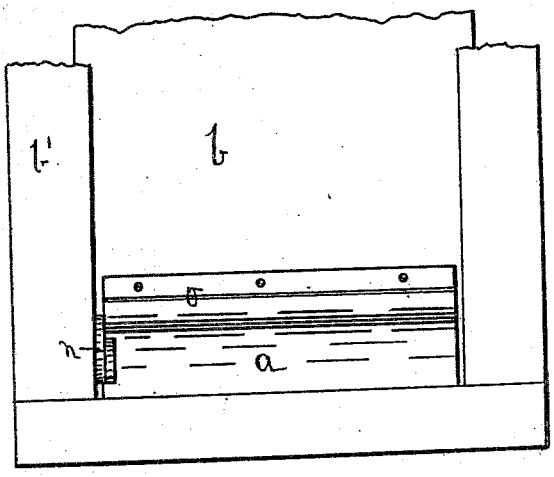


Fig. 2.

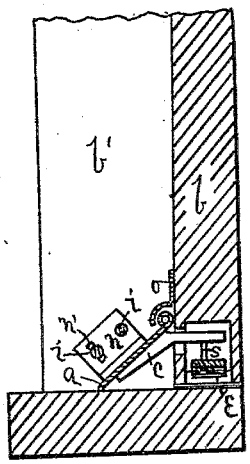


Fig. 4.

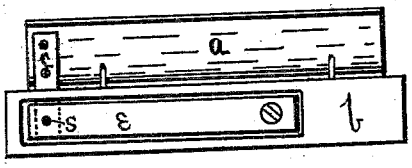
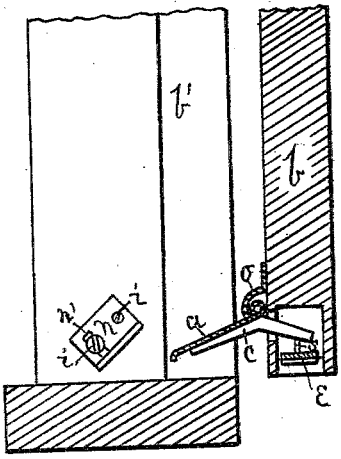


Fig. 3.



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UNITED STATES PATENT OFFICE.

DAVID B. KINGSBURY, OF RAVENNA, OHIO.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 301,501, dated July 8, 1884.

Application filed November 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID B. KINGSBURY, a citizen of the United States, residing at Ravenna, Portage county, Ohio, have invented a new and useful Improvement in Weather-Strips, of which the following is a specification.

My invention consists in the combination and relative arrangement of a hinged strip with a spring and other devices, as hereinafter fully set forth and claimed.

In the drawings forming a part of this specification, Figure 1 is an elevation of the lower part of a door, *b*, and its frame *b'*, in connection with the weather-strip. Fig. 2 is a vertical section at line 1 in Fig. 1, representing the door closed. Fig. 3 is a similar section representing the door partially open, and Fig. 4 is a view of the bottom end of the door.

The strip *a* is of sheet metal, hinged across the inner side of door *b*, near the bottom, and inclined downward. The bent arm *c* is attached to strip *a*. The door is recessed to receive spring *e* and the inner end of arm *c*, which are flexibly connected by a short wire, *s*. When the door is open, the lower edge of strip *a* is held above the bottom of the door by spring *e*. In closing door *b* strip *a* comes in contact with cam *n* when the door is nearly closed, which presses down strip *a* until its lower edge is in contact with the door-sill. Cam *n* is formed with a slot, *n'*, and is attached to frame *b'* by two screws, *i i*, one of which is in slot *n'*. This slot is for the purpose of permitting the proper adjustment of cam *n* to hold the lower edge of strip *a* closely against the door-sill when door *b* is closed. The lower edge of strip *a* is curved downward to present a smooth convex surface to slide in contact with cam *n*. The sheet-metal cap *o* is attached to door *b* to cover the upper or hinged part of strip *a*, and also to arrest the upward turning of the strip, caused by spring *e*, when the lower edge of the strip is sufficiently above the bottom of the door. For this latter purpose cap *o* is so formed and situated relative to strip *a* that the lower edge of the cap will be in contact with the upper side of strip *a*, and thus arrest the action of spring *e* when the lower edge of the strip has been sufficiently raised to clear the door-sill in opening and closing the door.

Heretofore weather-strips have been hinged to the outside of the door and held in a raised position by a spring located in a groove in the lower part of the door and connected by an arm with the strip, the latter being operated by a cam, and such devices are not in themselves new.

I claim as my invention—

1. The hinged weather-strip *a*, formed with arm *c*, spring *e*, and cam *n*, in combination with door *b*, recessed to receive the spring and arm, substantially as described.

2. The hinged weather-strip *a*, formed with arm *c*, spring *e*, cam *n*, and door *b*, recessed to receive the spring, in combination with cap *o*, arranged to cover the hinge of the weather-strip and arrest the action of the spring in lifting the strip, substantially as described.

DAVID B. KINGSBURY.

Witnesses:

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