

H. W. Wicker,

Weather Stript.

No. 106,757.

Patented Aug. 23. 1870.

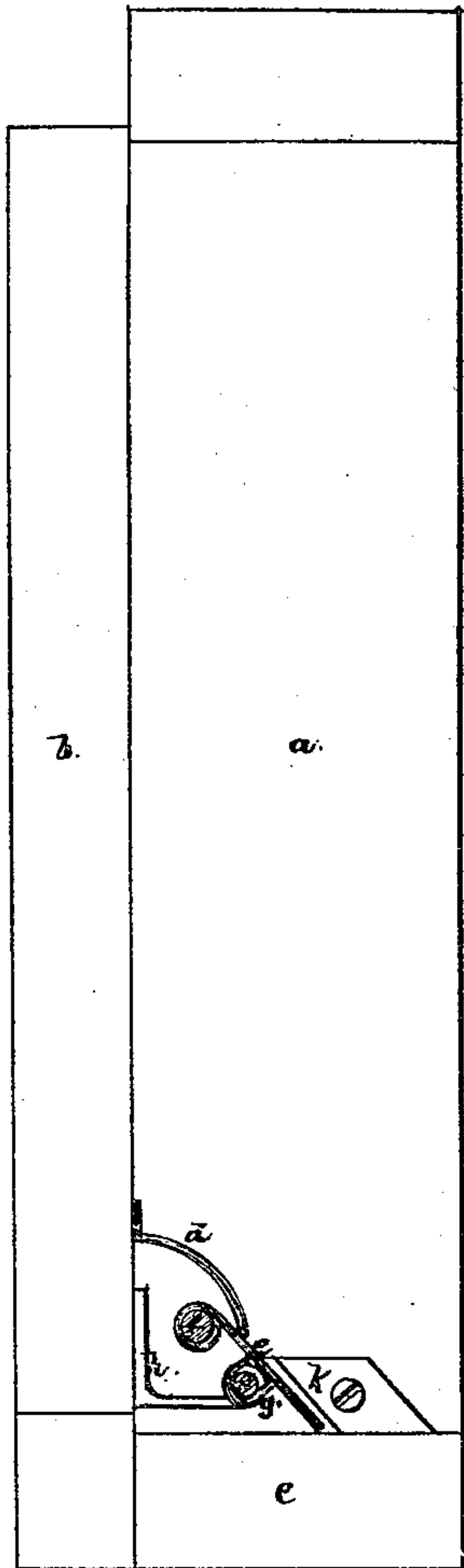


Fig 1.

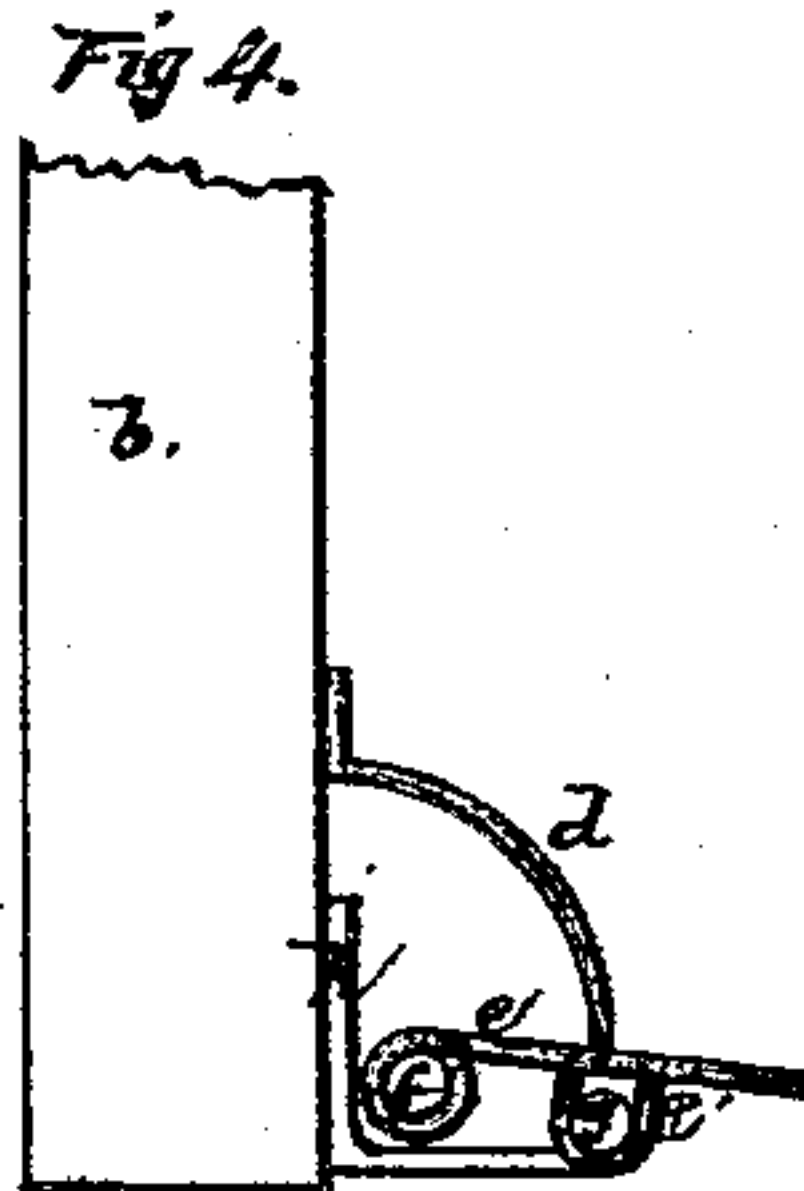


Fig 4.

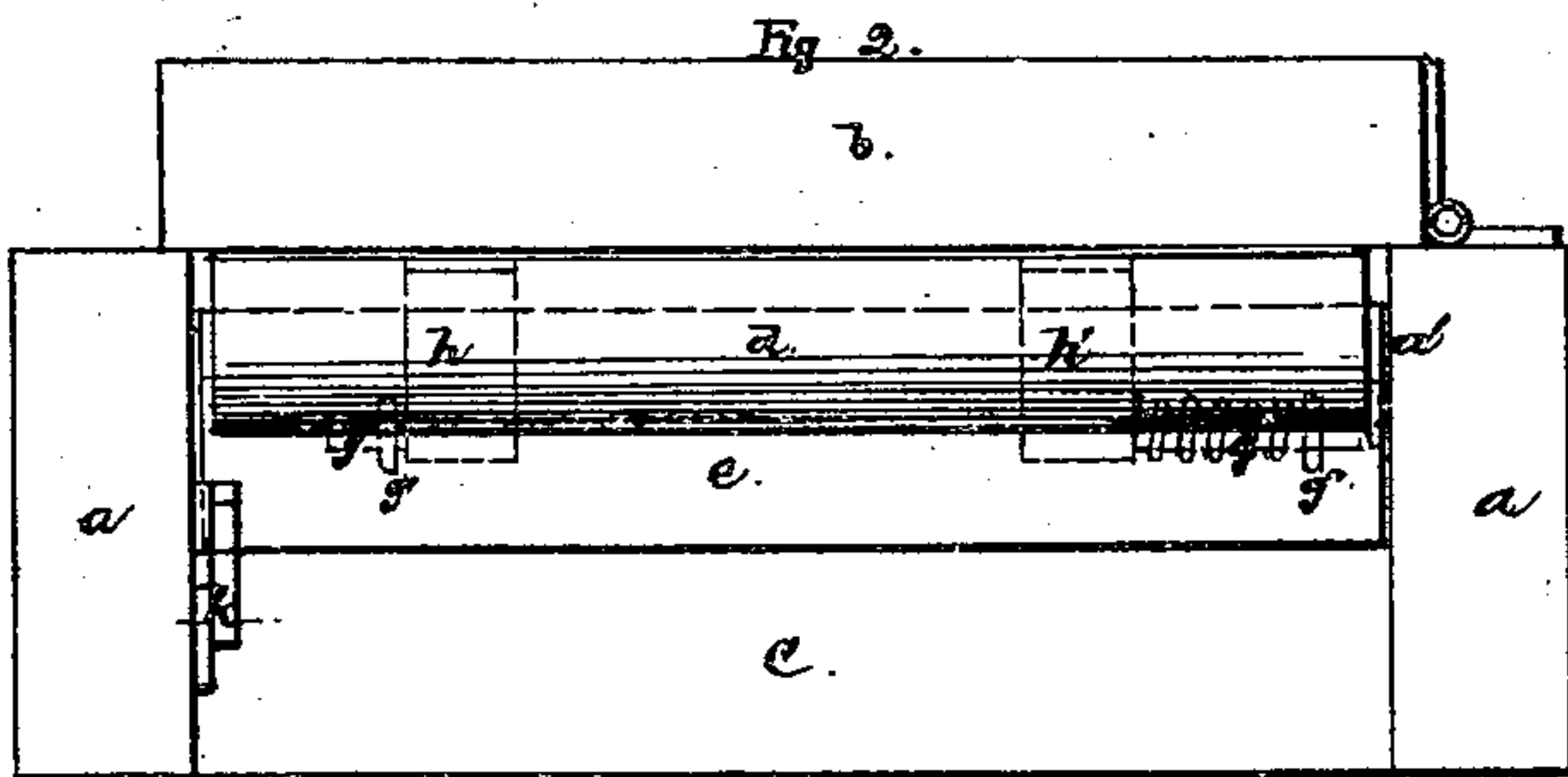


Fig 2.

Witnesses.
C. H. Washburn.
L. B. Fuller.

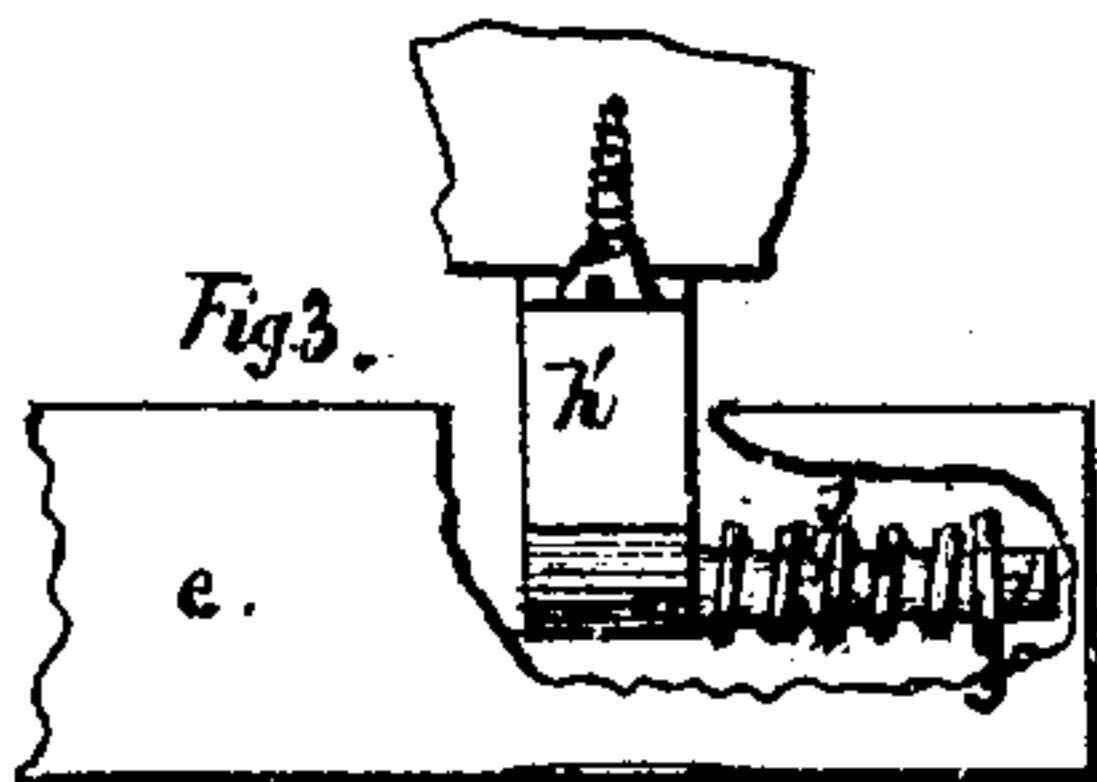


Fig 3.

Inventor.
H. W. Wicker.
Attest 2. 1870

United States Patent Office.

HENRY W. WICKER, OF NORWICH, CONNECTICUT.

Letters Patent No. 106,757, dated August 23, 1870.

IMPROVEMENT IN WEATHER-STRIPS.

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

I, HENRY W. WICKER, of Norwich, in the county of New London and State of Connecticut, have invented certain Improvements in Weather-Strips, of which the following is a specification.

The nature of my invention consists in a foot-plate of a weather-strip, provided with a strengthening-rod, which acts as a weight for raising the front edge of the foot-plate, and provided with a spring peculiarly arranged for giving a lateral movement to said plate, and also provided with a guide for depressing the front edge of said plate, as more fully hereinafter shown and described.

In the drawing—

Figure 1 represents a vertical section of my invention.

Figure 2 is a horizontal section.

Figure 3 is a view, showing the hinge and spring.

a represents the frame of the door.

b is the door.

c is the threshold.

d is the curved plate attached to the door, as shown in figs. 1, 2, and 4.

e is the foot-plate. This is made preferably of sheet metal, and the back edge is strengthened by a round rod, *f*, running its entire length, the edge of the plate being bent around it, as shown in figs. 1 and 4. This rod also acts as a weight to hold the foot-plate in a horizontal position while the door is open, (see fig. 4.)

The foot-plate works upon the hinges *h* and *h'*, and is held in place by the staples *g'* and *g''*.

j is a spiral spring, coiled around the pin *i*, (said pin forming part of the hinge *h'*), and pressing the staple *g''*, thus holding the end of the foot-plate against the frame at *a'*.

By opening and closing the door the plate will move laterally upon the hinges, and thereby allow the use of a longer plate than could be used if worked upon ordinary hinges without lateral motion.

k is a guide, fastened to the frame in such a manner that in closing the door said guide will carry the front edge of the foot-plate down upon the threshold, in which position the apparatus will effectually exclude dust, rain, and cold.

I claim as my invention—

The plate *e*, hinged as shown, and provided with the spring *j* acting against the staple *g''*, and also provided with the rod *f*, said rod acting as a weight for raising the front edge of the plate *e*, and at the same time strengthening said plate, the above being combined with the plate *d* and the guide *k*, and constructed arranged, and operated in the manner substantially as shown and described, and for the purposes specified.

Norwich, Conn., April 2, 1870.

Witnesses:

HENRY W. WICKER.

O. K. BUSHNELL,

J. B. FULLER.