

A. S. Pelton.

Weather Strip.

Nº 4,312.

Patented Dec. 16, 1845.

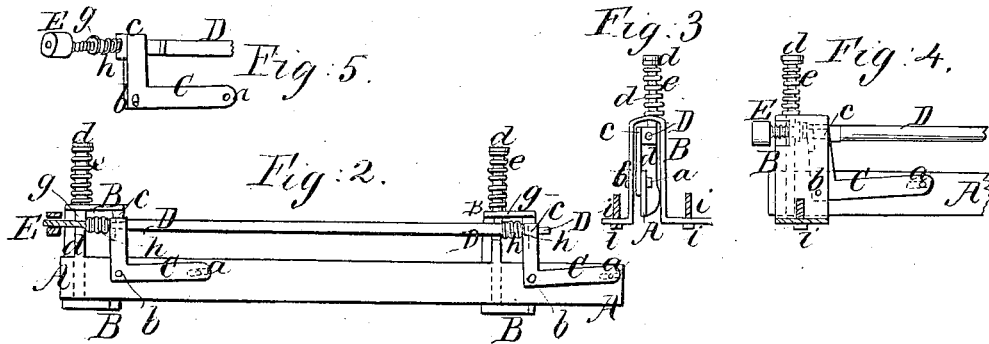
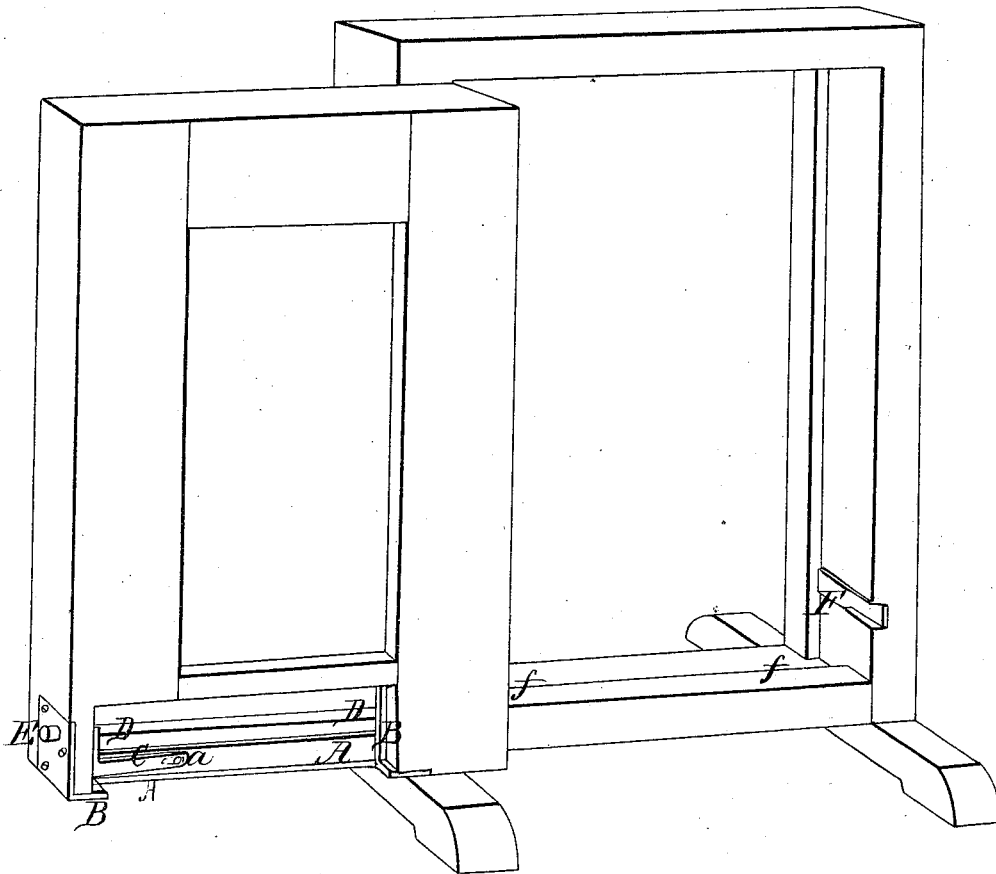


Fig: 1.



UNITED STATES PATENT OFFICE.

A. S. PELTON, OF CLINTON, CONNECTICUT.

MODE OF OPERATING WEATHER-STRIPS FOR DOORS.

Specification of Letters Patent No. 4,312, dated December 16, 1845.

To all whom it may concern:

Be it known that I, A. S. PELTON, of Clinton, in the county of Middlesex and State of Connecticut, have invented a new and improved manner of arranging and combining apparatus for raising and lowering water-tables or weather-strips at the bottoms of doors; and I do hereby declare that the following is a full and exact description thereof.

My water table or weather strip consists of a plate of metal which is let edgewise into the bottom rail of a door, and which is to be so operated upon by means of levers and springs as to cause it when the door is shut to descend over a rabbet on the door sill, and to raise over it in the act of opening the door.

In the accompanying drawing Figure 1 represents the door and its frame and Fig. 2 the water table and its appendages separate from the door; Fig. 3 is an end view of Fig. 2.

A A is the plate which constitutes the water table, B B are two saddle pieces which embrace the water table and its appendages and by which the whole apparatus is attached to the door, C C are two kneed levers that are attached by joint pins *a a* to the water table and by joint pins *b b* to the pieces B B. These levers are acted on by a rod D D which bears against their upper ends *c c*, and will consequently, when forced forward cause the table A A to descend. To the water table is attached two pieces of metal *d d* that cause it to operate vertically by the passing of their upper ends through suitable holes in the upper part of the pieces B B; these upper ends are surrounded by spiral springs *e e* that serve to raise the water table when not forced down. The rod D D has a head E which extends out beyond the edge of the door and this head when the door is being closed is brought into contact with an inclined plane F on the door post that is guarded by a plate of metal. When the door is closed the rod D D will be forced

in and the water table will be made to descend. At *f f* on the door sill there is a rabbet over which it will pass and effectually keep out the weather. The head E is made adjustable by screwing on to the rod D D so that it may operate with accuracy against the inclined plane F. To prevent cramping in the descent of the water table the pins *a a* are allowed some play longitudinally.

The water table A A is made adjustable so that one end or the other of it may be lowered at pleasure in case of the swagging of the door; and it is also made to yield to any obstruction that may happen to be on the sill. For this purpose there are screw nuts *g g* on the rod D D within reach of the pieces B B; a part of one of those pieces being removed for the purpose of showing them; these nuts serve to make the required adjustment; and to make the strip yield in case of any impediment there are spiral springs at *h* on the rod D D against which the nuts bear and thereby enable the table to yield to any obstruction.

The apparatus may be attached to the door by screws passing through the holes *i i*.

Having thus fully set forth the manner in which I arrange and operate a water table or weather strip at the bottom of doors, what I claim therein as new and desire to secure by Letters Patent, is—

The particular manner in which I have combined the respective parts as herein described; that is to say the water table being forced down by the action of the head E of the rod D D on the inclined plane F through the intervention of the levers C C and being raised by the spiral springs *e e* when the door is opened; and the necessary adjustments being also effected by the aid of the screw nuts and spiral springs substantially in the manner described.

A. S. PELTON.

Witnesses:

GEORGE CARTER,
RICHARD M. BUELL.