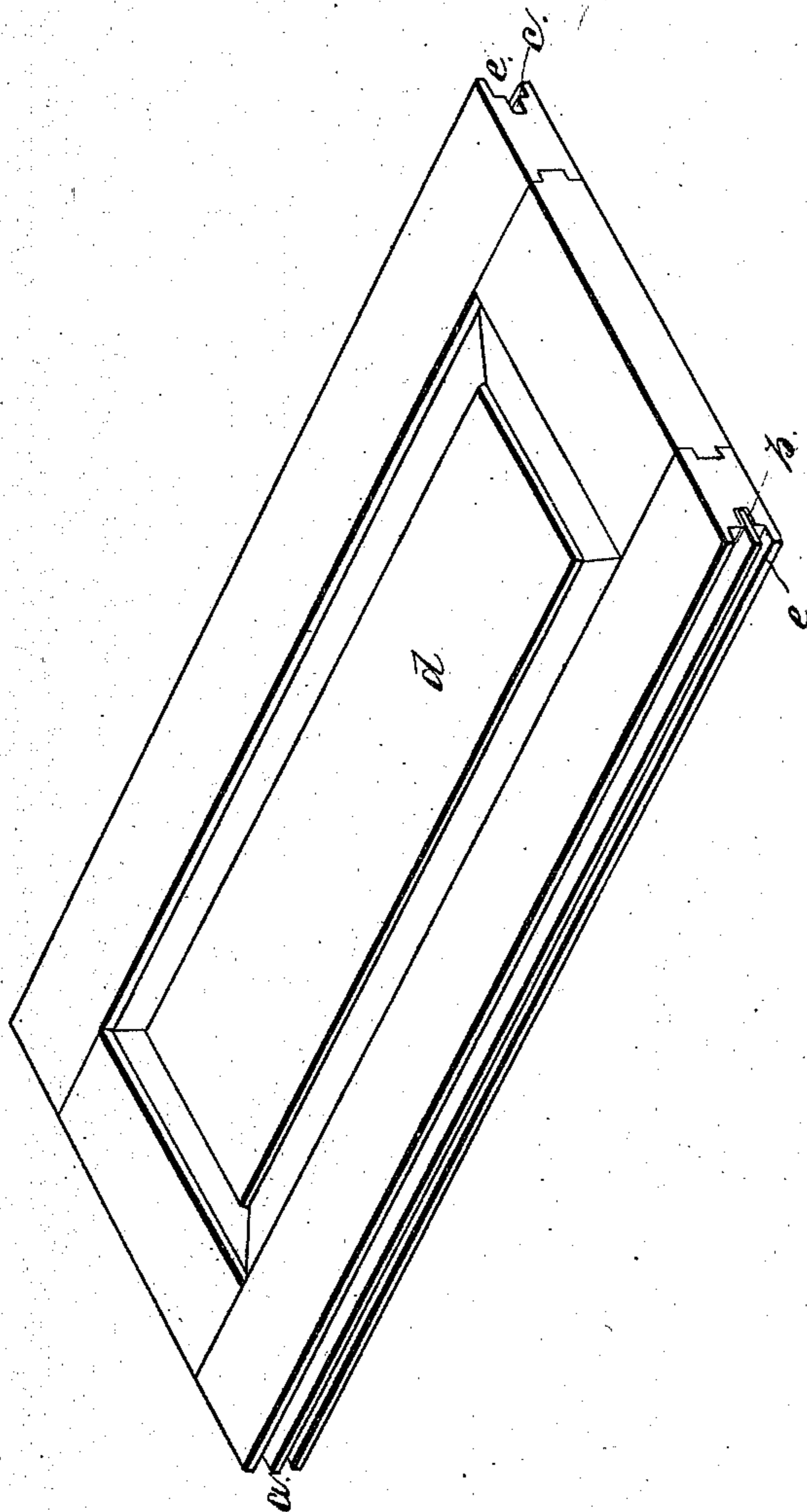


*C. Merritt,  
Weather Strip.*

*N<sup>o</sup> 35,424.*

*Patented May 27, 1862.*



*a.*



*Witnesses:*

*E. E. Graves*

*J. H. Dodge*

*Inventor*

*C. Merritt  
per H. P. White agt.*

# UNITED STATES PATENT OFFICE.

CHESTER MERRITT, OF RUTLAND, VERMONT, ASSIGNOR TO HIMSELF AND DANIEL D. WHITKER, OF SAME PLACE.

## IMPROVEMENT IN WEATHER-STRIPS FOR DOORS.

Specification forming part of Letters Patent No. 35,424, dated May 27, 1862.

*To all whom it may concern:*

Be it known that I, CHESTER MERRITT, of Rutland, in the county of Rutland and State of Vermont, have invented a new and useful Weather-Strip or Valve for Rendering Doors and Windows Tight, so as to perfectly exclude the air, and yet permit their being opened with facility; and I declare that the following is a full, clear, and accurate description of the same, reference being had to the annexed drawing.

I employ for the purpose a valve, *a*, consisting of a strip of india-rubber, which for an ordinary door should be one-eighth of an inch thick and three-fourths of an inch wide. To facilitate its being inserted in the door and to hold it in its place, a piece of tin or other metal, *b*, may be bent so as to clasp one edge of it on both sides and so as to cover all that part of it which is inserted in the door. To hold the rubber more effectually, the tin should be dented into the rubber on both sides. Thus prepared, the tin inclosing the rubber is to be driven into the groove *c* in the edge of the door *d*, so that the valve will project beyond the edge an eighth of an inch, or as much farther as is necessary to insure its pressing firmly against the casing. The groove into which the valve is driven lies in the middle of a square-cornered recess, *e*, cut into the edge

of the door through the whole length of it one-half an inch wide and one-eighth of an inch deep, but wide enough and deep enough for the valve to lie in when bent over. When the door is closed, the valve will press against the casing and exclude the air. Should the door be swollen by water or the joint become more close from any other cause, the valve will lie in the recess along side of it and offer no impediment to shutting the door, though it still presses against the casing. Should the door shrink, on the other hand, the valve will continue to press against the casing if properly constructed.

The same device may be used to render windows tight with such alterations as are obvious.

What I claim as my invention, and desire to secure by Letters Patent, is—

A weather-strip of india-rubber guarded upon one edge with a thin clasp of metal, which is inserted into a narrow crevice in the edge of the door or window, and having on each side of it a groove capable of receiving it when turned down, the whole being constructed substantially as described.

CHESTER MERRITT.

Witnesses:

G. P. HANNUM,  
L. N. HARLOW.