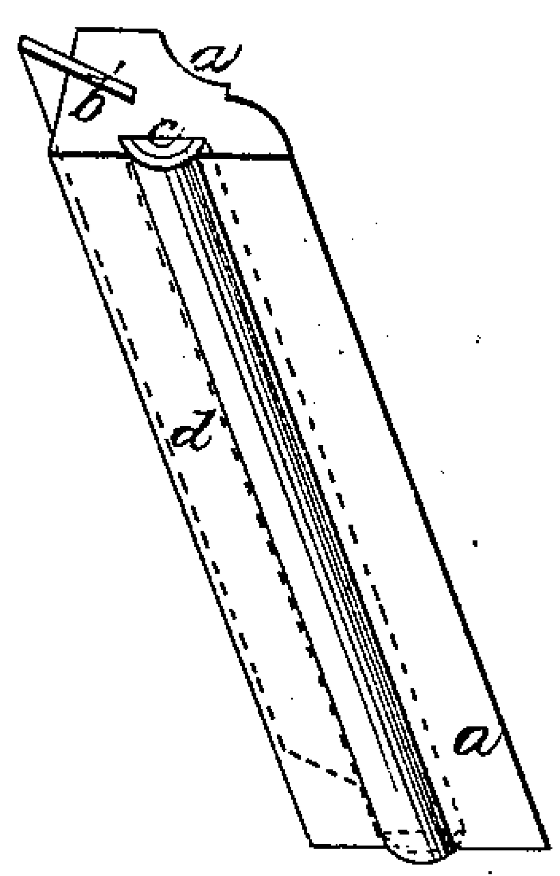
E. S. Torrey.

Weather Strip.

No. 81,228. Patented Aug. 18, 1868.



Witnesses:

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E. S. TORREY, OF NEW YORK, N. Y.

Letters Patent No. 81,228, *dated August* 18, 1868.

IMPROVED WEATHER-STRIP.

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

Be it known that I, E. S. TORREY, of the city, county, and State of New York, have invented certain new and useful Improvements in the Construction of Weather-Strips for Windows, Doors, &c.; and I do hereby declare and ascertain my said invention, referring to the accompanying drawing, which represents my said improvement.

Heretofore numerous specific modes of construction have been devised for weather-strips, formed by a combination of elastic with rigid substances, such as wood and India rubber, &c., and it has been a constant aim to make the merchantable article as light and small as possible, consistent with strength and durability. This has been sufficiently-well effected in devices that I, as well as Gilroy, have heretofore made; but when, as is sometimes desirable, it is required to insert India rubber on two faces of the moulding, if they are both inserted into a saw-kerf or deep narrow groove, the moulding is injuriously weakened, or is too large and clumsy.

I have avoided both these defects by my present mode of construction, and form a delicate, and, at the same time, strong weather-strip, having all the advantages of an India-rubber packing on two sides. For this purpose, I form my moulding for an angle, as clearly seen at *a* in the drawing. On the unattached face, I cut an inclined groove, *b*, and insert a narrow strip of India rubber, as clearly seen in the drawing, and as heretofore employed by me in my manufacture of weather-strips. On the straight face of the moulding, *c*, that is, in contact with the surface to which the moulding is affixed, I form a shallow dove-tailed groove, into which I spring a strip of India rubber, a little broader than the groove, so that it will bulge out in curved form, as clearly seen in the drawing, when not applied. When it is nailed to its place, the bulging rubber will be forced into the shallow groove.

It is obvious that this strip of rubber may be made a little thicker than the groove, and be inserted therein straight, which will produce substantially the same effect, but I deem the curved form the best and most practicable.

Having thus fully described my improvement, I claim—

As an article of manufacture, the construction of a weather-strip, on one side of which is inserted, in a dove-tail groove, *c*, a piece of India rubber, or other elastic material, as described, and on the other side of which is inserted a straight strip of India rubber, or other elastic material, *b*, as and for the purpose herein set forth.

E. S. TORREY.

Witnesses:

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STEPHEN G. CLARKE.