

SAMUEL STROOCK.

Packing for Doors.

117,939.

Patented August 8, 1871.

Fig 1

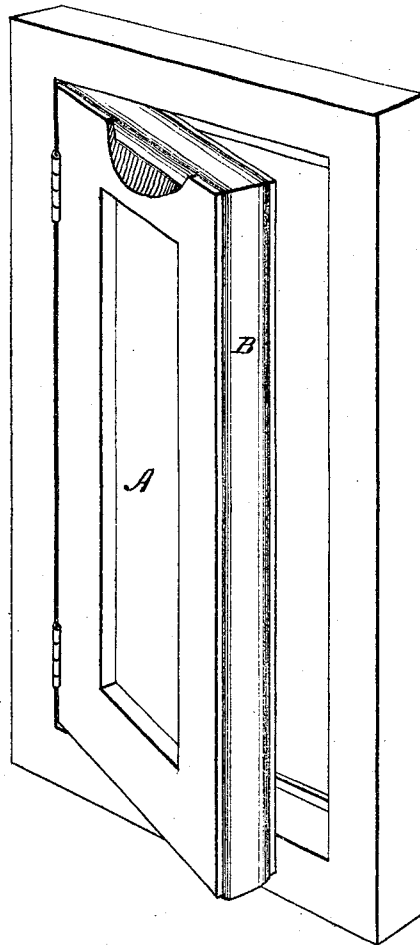
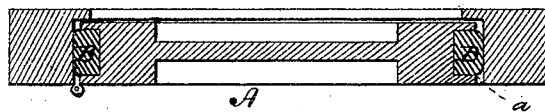


Fig 2



Witnesses.

Harry King

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UNITED STATES PATENT OFFICE.

SAMUEL STROOCK, OF NEW YORK, N. Y.

IMPROVEMENT IN PACKINGS FOR DOORS AND WINDOWS.

Specification forming part of Letters Patent No. 117,939, dated August 8, 1871.

To all whom it may concern:

Be it known that I, SAMUEL STROOCK, of New York, in the county of New York and State of New York, have invented certain Improvements in Packing for Doors and Windows, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to an improved packing for producing a tight joint around the edges of doors and windows; and it consists in a strip of felt, made principally or wholly of hair, secured in a groove in the edge of the door or sash so as to protrude slightly therefrom, as hereinafter described.

Figure 1 is a perspective view of a door provided with my packing, and Fig. 2 is a cross-section of the same.

In applying my packing to a door, A, I form in the four outer edges of the same a continuous shallow groove, *a*, of any suitable size and form. I next provide strips of heavy hair-felt B, and secure them in the grooves *a* in such manner as to protrude slightly beyond the edge of the door, as shown. The felt should be of such thickness that only one layer or strip is necessary, and it may be tacked, glued, or otherwise secured in place.

When the door is closed the projecting portion of the felt fits snugly against the inside of the door-frame and produces a perfectly-tight joint around the door. The packing is applied to window-sash in the same manner as to doors. When applied to sash the packing not only renders the joint tight, as on the doors, but it prevents any noise or sound when the sash is moved.

The groove into which the felt is inserted may be made of a dovetail or other similar form, which will hold the felt firmly in place, and on doors the outer corners of the felt may be rounded off,

so as not to catch on the frame when the door is being closed. Instead of securing the felt to the door or sash it may be secured to the frame thereof; but the first arrangement is considered the best for many reasons.

The felt-packing applied on my plan is cheap, simple, and efficient, is readily applied to doors and windows already in use, is entirely concealed from sight, and is not affected by heat, cold, or moisture. By making the felt thick, and letting it protrude considerably from the edge of the door or sash, it allows the door or sash to swell or shrink and still maintains a tight joint, the elasticity of the felt causing it to press against the surrounding frame when the parts are shrunk, and allowing it to yield to the increased pressure when the parts are swelled. By this means a tight joint is secured at all times, and wind, dust, &c., perfectly excluded.

I am aware that rubber has been applied to windows in a somewhat similar manner; but it has been found worthless and impracticable, because in hot weather it adhered to the frame and rendered it impossible to move the sash, and in cold weather it lost its elasticity and failed to produce a tight joint, and also for the reason that in time it became so rotten as to be torn and separated by friction against the frame. It is obvious that felt of other substances than hair may be used, but I have found it preferable to any other.

Having described my invention, what I claim is—

A felt-packing for doors and windows, constructed and applied substantially as described.
SAMUEL STROOCK.

Witnesses:

AMORY EDWARDS,
G. W. HEBARD.