J. H. Morris.

Door Sill.

No. 88,502. Patented Mar. 30, 1869.

Fig. 1.

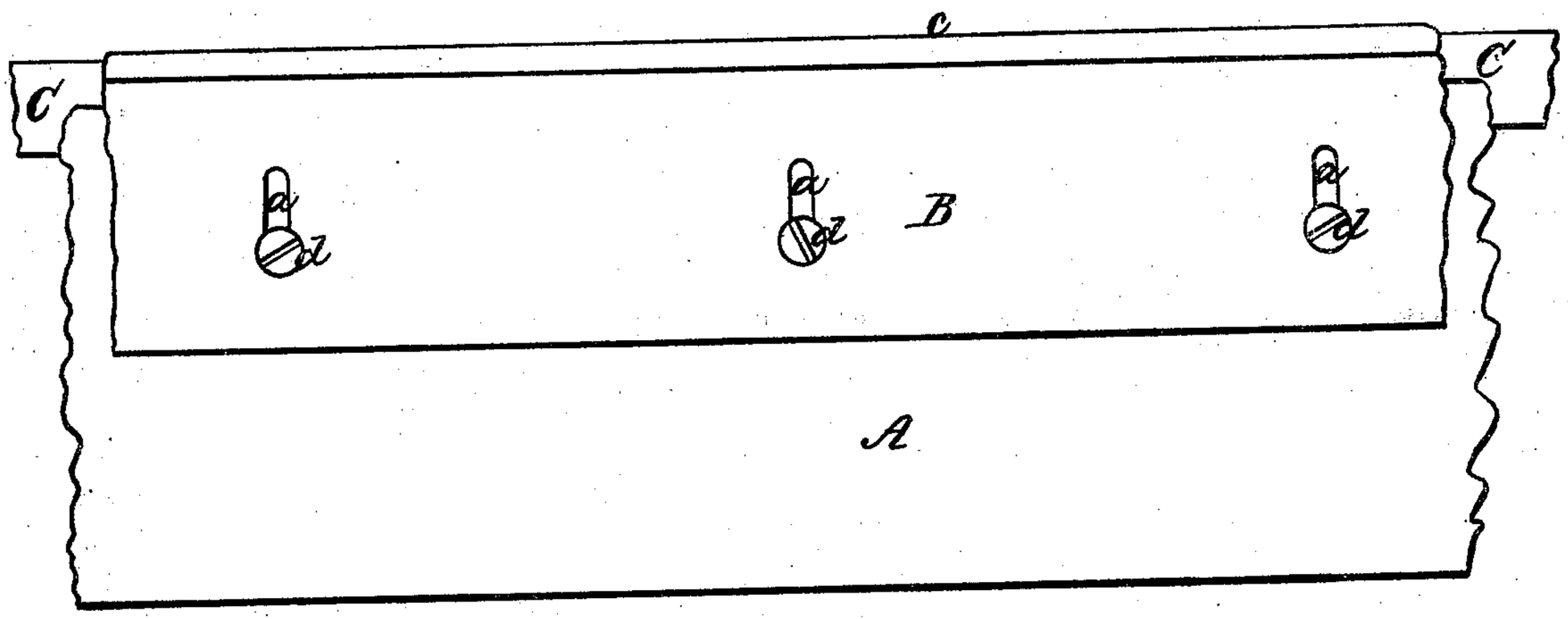
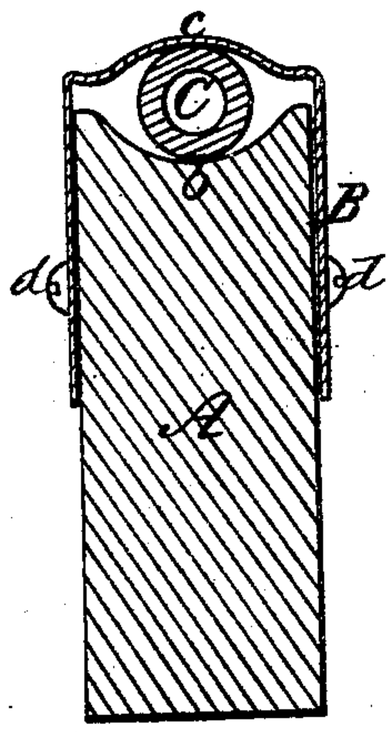


Fig. 2.



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JOHN H. MORRIS, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 88,502, *dated March* 30, 1869.

IMPROVED ADJUSTABLE DOOR-SILL.

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

Be it known that I, JOHN H. MORRIS, of Philadelphia, in the county of Philadelphia, and State of Pennsylvania, have invented a new and useful Self-Adjusting Door-Sill; and I do declare, hereby, that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure I is a side view, and

Figure II is a sectional, or end view.

Letter A is the wooden foundation.

B is the metal plate, or cap, forming the sill of the door.

C is the spring, which holds the plate, or sill in its natural position, when free from pressure from above.

a a a are slots, to allow a free motion of the sill.

b is the gutter made in the wooden foundation.

c is the oval top of sill.

d d d are the screws, which hold the plate.

The nature of my invention consists in providing a door-sill with a movable plate, self-adjustable by means of a spring, so as to effectually close any aperture under the door.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I take a piece of scantling, or wood, A, of the proper size and shape to suit the door, one side of which, *b*, I hollow or round out.

In the gutter thus made, I lay a roll of rubber, C, and over and covering this roll C, and enclosing the wood A, I place a cap, or covering, B, of sheet-brass, iron, zinc, or other suitable material, its top being slightly oval, *c*, and its sides parallel, or nearly so, to each other, which I secure by making, in its sides, a number of slots, *a*, of sufficient length to allow a free movement of the cap B, and through these slots *a*, driving screws, nails, or spikes, *d*, into the wood which the cap encloses; or I provide one side of the cap with these slots *a* and fastenings *d*, and secure the opposite side firmly to the wood.

In this manner I make the best and most approved sills; but I deviate from the above method in several particulars, viz, first, by the use of elliptical, or spiral springs, in lieu of a rubber roll, C; second, by omitting springs, and depending on the natural spring of the metallic cover, or cap B, in which case I slot one side, as above described, and fasten the opposite side firmly to the wood.

In applying the sill to a door, care must be taken to level and smooth off the bottom of the door.

A sill thus constructed, and properly adjusted, effectually closes any space under the door, and excludes wind, water, snow, &c., while it presents no obstacle to the free opening or closing of the door, or ingress or egress thereat.

Having thus described my invention,

What I claim, is—

A self-adjusting door-sill, having a metallic covering, B, with oval top *c*, slotted flange or flanges, and supported by springs C, constructed and operated for the purpose, and in a manner substantially as set forth.

JOHN H. MORRIS.

Witnesses:

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