

No. 682,338.

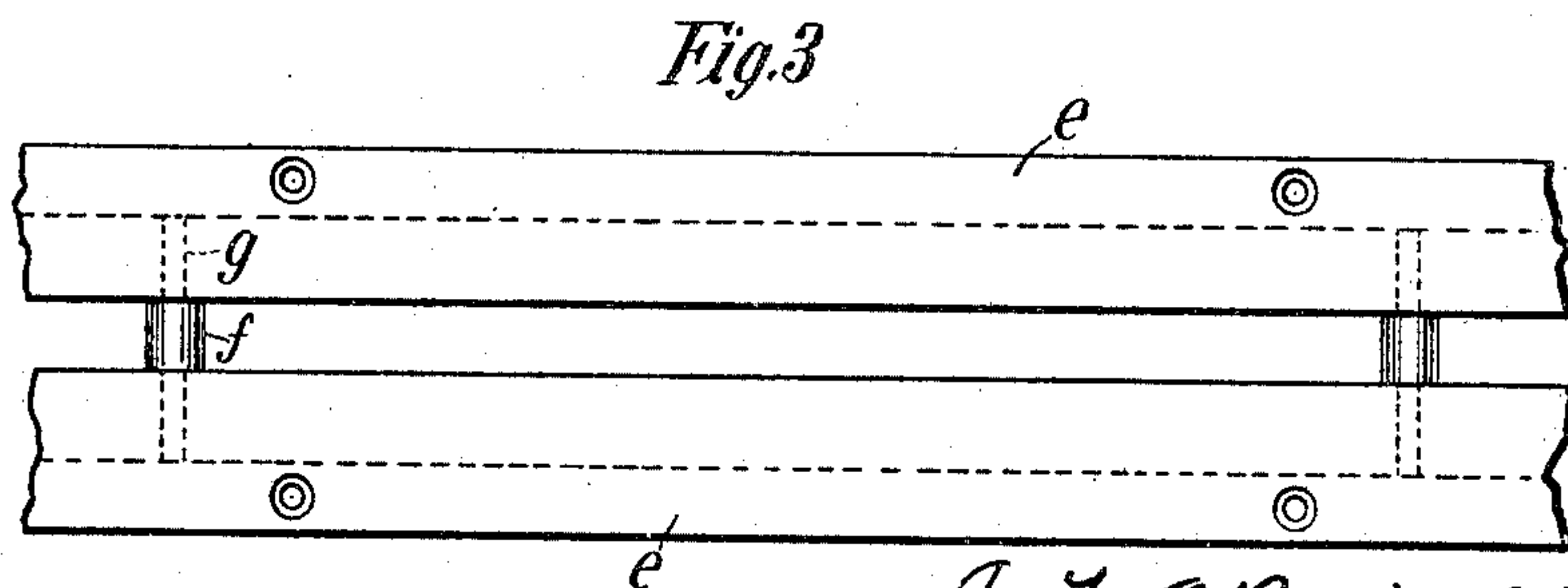
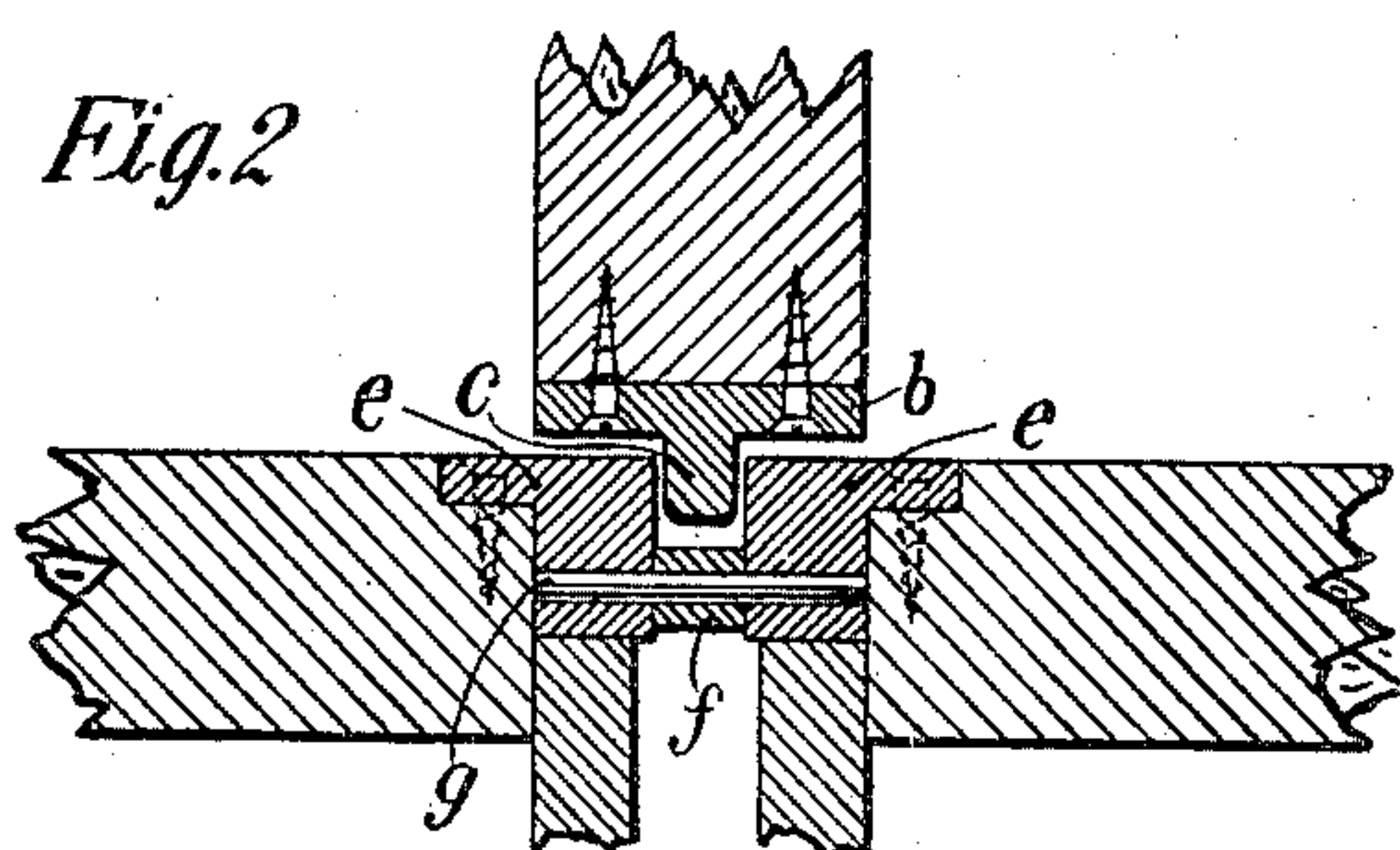
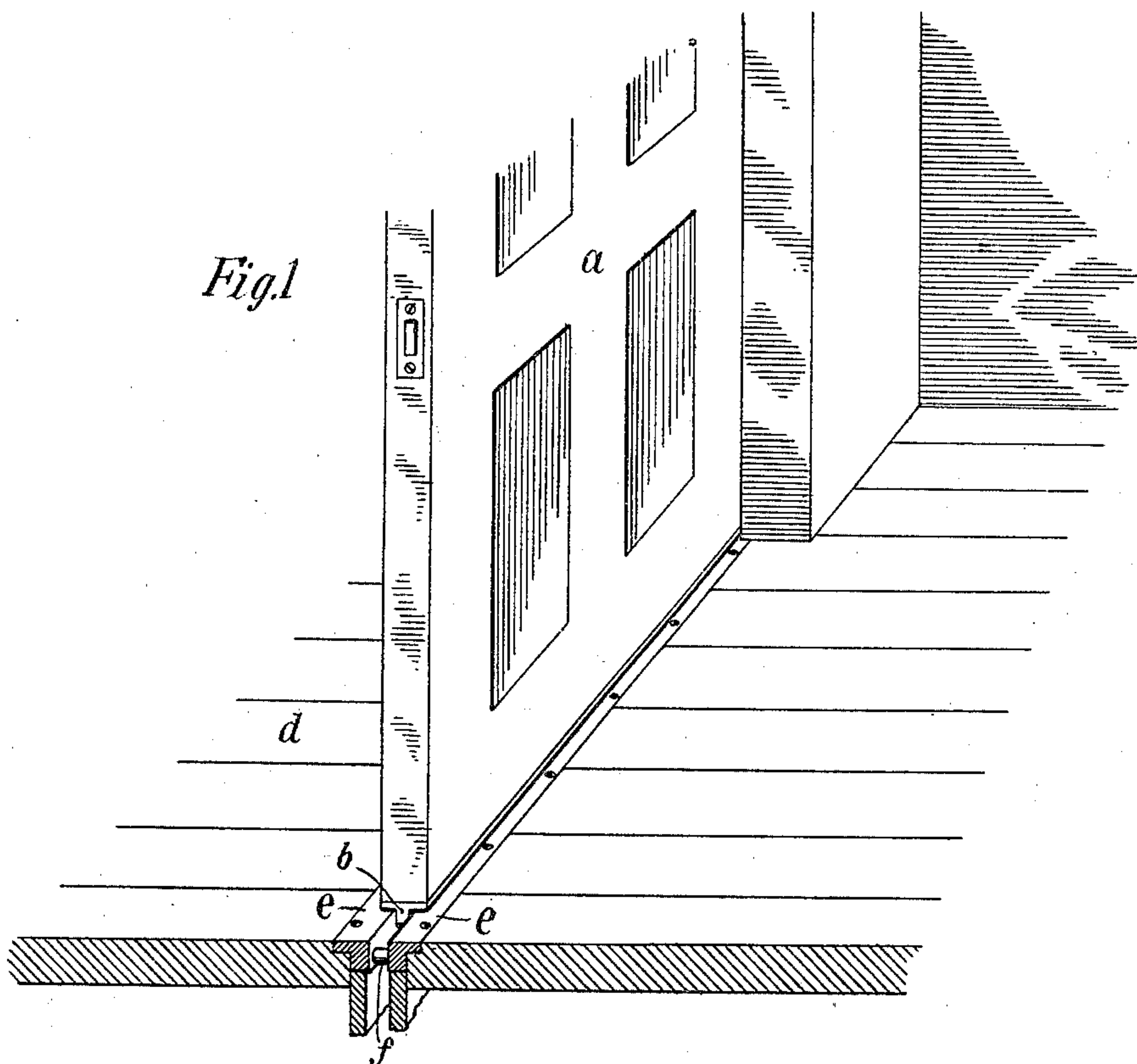
Patented Sept. 10, 1901.

J. F. O'BRIEN, JR.

SLIDING DOOR.

(Application filed June 11, 1901.)

(No Model.)



Witnesses:

Herman A. Heydt
Charles E. Heydt

J. F. O'Brien, Jr. Inventor
by Ed. A. Isaac Att'y

UNITED STATES PATENT OFFICE.

JEREMIAH F. O'BRIEN, JR., OF MADISON, NEW JERSEY.

SLIDING DOOR.

SPECIFICATION forming part of Letters Patent No. 682,338, dated September 10, 1901.

Application filed June 11, 1901. Serial No. 64,196. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH F. O'BRIEN, Jr., a resident of Madison, county of Morris, State of New Jersey, have invented an Improvement in Sliding Doors, of which the following is a specification.

My invention relates to an improvement in sliding doors, and is designed to produce a means whereby the doors may be made wind and draft proof, while at the same time they are kept true in their guideways, are easily moved, and are prevented from warping.

In the following, with reference to the accompanying drawings, I have described a structure embodying my invention, the features thereof being more particularly pointed out hereinafter in the claims.

Figure 1 is a perspective view of a door provided with my improvement, parts being broken away for economy of space. Fig. 2 is a sectional view showing details of construction. Fig. 3 is a plan view of a portion of the track or guideways.

Similar letters of reference indicate similar parts throughout the several views.

a represents a door, which may be suspended from above in any convenient manner adapted to permit an easy longitudinal sliding movement.

b represents a shoe provided with a tongue *c*, the shoe being firmly secured to the bottom of the door by any convenient means, such as by screws, as shown.

d represents the floor, across which the door is adapted to slide, said floor having rails or guides *e e* countersunk in it, as shown, the upper surface of the rails being flush with the floor. Block *f* on pin *g* serves to space the rails to fit the tongue on the shoe. It is obvious that the rails may be in one piece channeled in the center for the groove or may be in two separate pieces spaced apart, as shown. The door should be so suspended as to leave a slight clearance between the bot-

tom thereof and the surface of the floor, and the tongue and groove should be of such relative size that the former will slide easily in the latter.

The improvements set forth are especially adapted for use in connection with barn or stable doors, where it is desirable to have the building wind and draft proof. The guide-rails, being flush with the door, present no obstruction to the feet or to the wheels of vehicles, and the combination of the tongue and groove keeps the door true on its bearings, and consequently easy to move. A further advantage resulting from my improvement is that the bottom of the door is held from warping. Where a considerable quantity of dirt is liable to get into the groove, it is desirable to have the same provided with convenient openings at the bottom, so that the tongue will push the dirt over the openings, when it will fall out.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A sliding door suspended from above and provided at its lower edge with a shoe having a tongue, in combination with a guideway countersunk in the floor, said tongue being adapted to slide in said guideway, substantially as set forth.

2. A sliding door suspended from above and provided at its lower edge with a shoe having a tongue, in combination with a guideway countersunk in the floor said guideway being provided with openings in the bottom, and said tongue being adapted to slide in said guideway, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. F. O'BRIEN, JR.

Witnesses:

ED. A. ISAACS,
J. WILLIAM HILL.