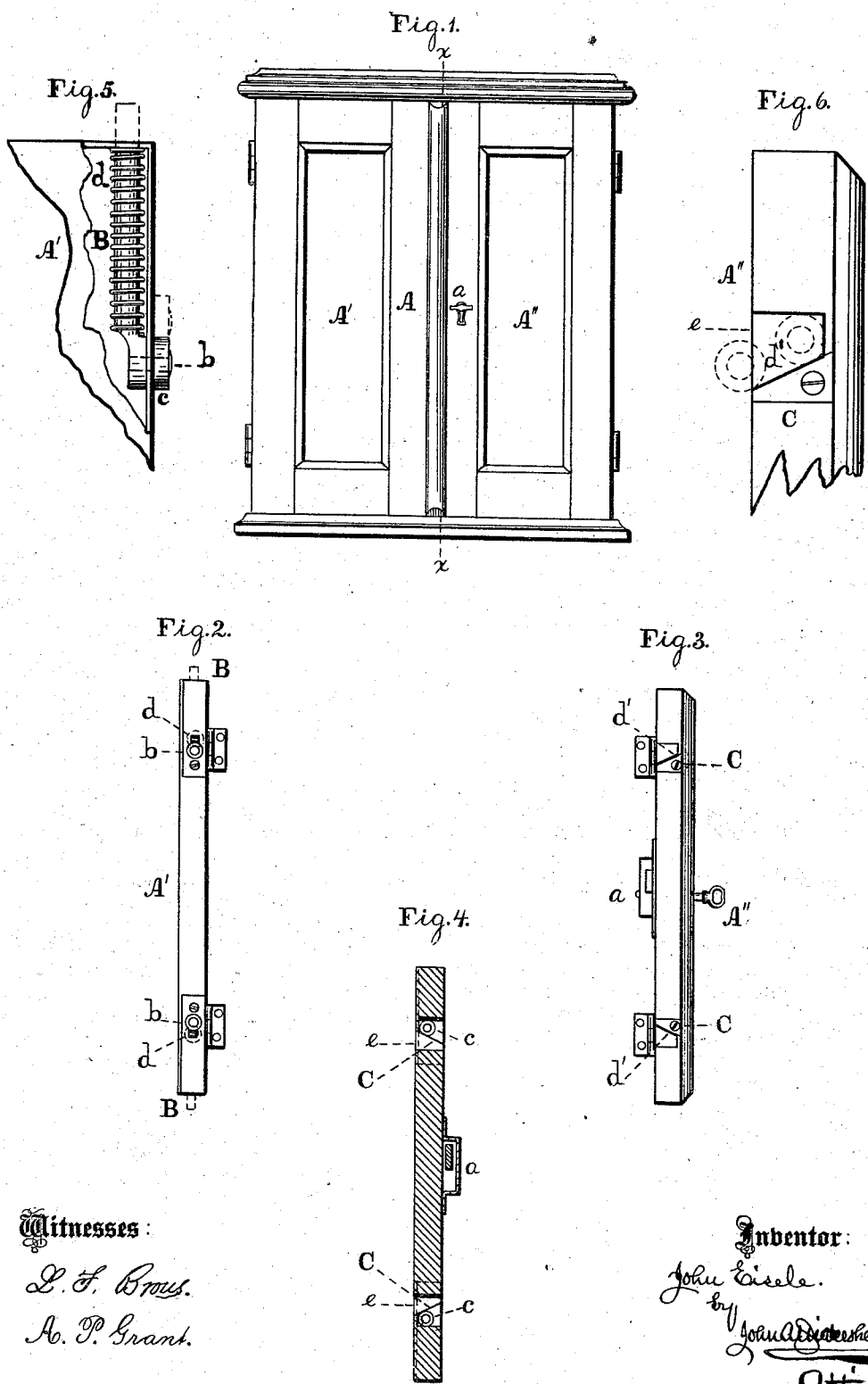


J. EISELE.
Bolts for Double Doors.

No. 155,507.

Patented Sept. 29, 1874.



Witnesses:
L. F. Gross.
A. P. Grant.

Inventor:
John Eisele.
by *John A. Dietrich*
Att'y.

UNITED STATES PATENT OFFICE.

JOHN EISELE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BOLTS FOR DOUBLE DOORS.

Specification forming part of Letters Patent No. **155,507**, dated September 29, 1874; application filed September 9, 1874.

To all whom it may concern:

Be it known that I, JOHN EISELE, of the city and county of Philadelphia and the State of Pennsylvania, have invented a new and useful Improvement in Fastening Doors; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a face view of doors having my invention applied thereto. Figs. 2 and 3 are end views of the doors. Fig. 4 is a vertical section in line *x x*, Fig. 1. Fig. 5 is an enlarged view of a portion of the front of one door, and Fig. 6 is a similar view of the end of the other door.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to a mode of fastening double doors; and consists in providing one door with sliding bolts having lateral extensions, and the other door with inclined ways, so that the closing of the latter door will serve to move the bolts of the other door to locking positions.

Referring to the drawings, A represents two doors, which are hung as usually. To one door there are fitted bolts B B, which, moving respectively upwardly and downwardly, are designed to engage with the adjacent portions of the frame for locking said door. The other door will be fastened by a lock, bolt, or latch, *a*, in any well-known manner. The bolts B are extended laterally, as at *b*, so as to project beyond the face of the inner end of the door to which they are fitted, as seen in Fig. 5, and on the projecting ends may be journaled rollers *c*, which stand vertically. It is evident that when pressure is properly exerted on the ends *b* of the bolts the latter will be moved from their positions and engage with the frame-work of the doors, as is well known, the return-motion of said bolts being accomplished by springs *d*, suitably connected to the bolts. On the inner face of the end of

the other door there are secured ways C, which, extending transversely, and having inclined faces *d'*, are arranged at or near the upper and lower ends of said door relatively to the location of the projecting ends *b* of the bolts B. The upper way has its inclined face on the upper side, and the lowest point of said face is below. The lower way has its inclined face on the lower side, and the highest point of said face is above. Spaces *e e* are formed in the door adjacent to the faces of the ways C for the passage of the ends *b* of the bolts B or rollers *c* thereon; but inclined grooves may be formed in said ways in lieu of the spaces *e*.

The operation is as follows: The door A', carrying the bolts B, is closed on the frame, and the other door, A'', brought up there-against. As soon as the ways C reach the rollers *c* or ends *b* of the bolts, the inclined faces, having said rollers or ends bearing thereon, cause the bolts B to move out from their places of rest, and thus engage with the frame of the doors. On fastening the other door, A'', by means of the lock *a*, the two doors are securely held to the frame without liability of opening as long as the door A'' is locked to the door A'. By operating the lock *a* and releasing the door A'' from door A', the ways C clear the ends of the bolts or rollers thereon, whereby the bolts are free to move from the frame of the doors, and, owing to the action of the springs *d*, the disengaging motions of the two bolts immediately occur, both doors being thus unlocked or disconnected from each other and the frame.

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

The sliding bolts B B, with lateral extensions *b*, with or without the rollers *c*, and the inclined ways C C, combined and operating substantially in the manner and for the purpose set forth.

JOHN EISELE.

Witnesses:

JOHN A. WIEDERSHEIM,
ALBERT H. HOECKLEY.