

W. EGER.
SHEAVE FOR SLIDING DOORS.

Patented Jan. 26, 1892.

Fig. 1.

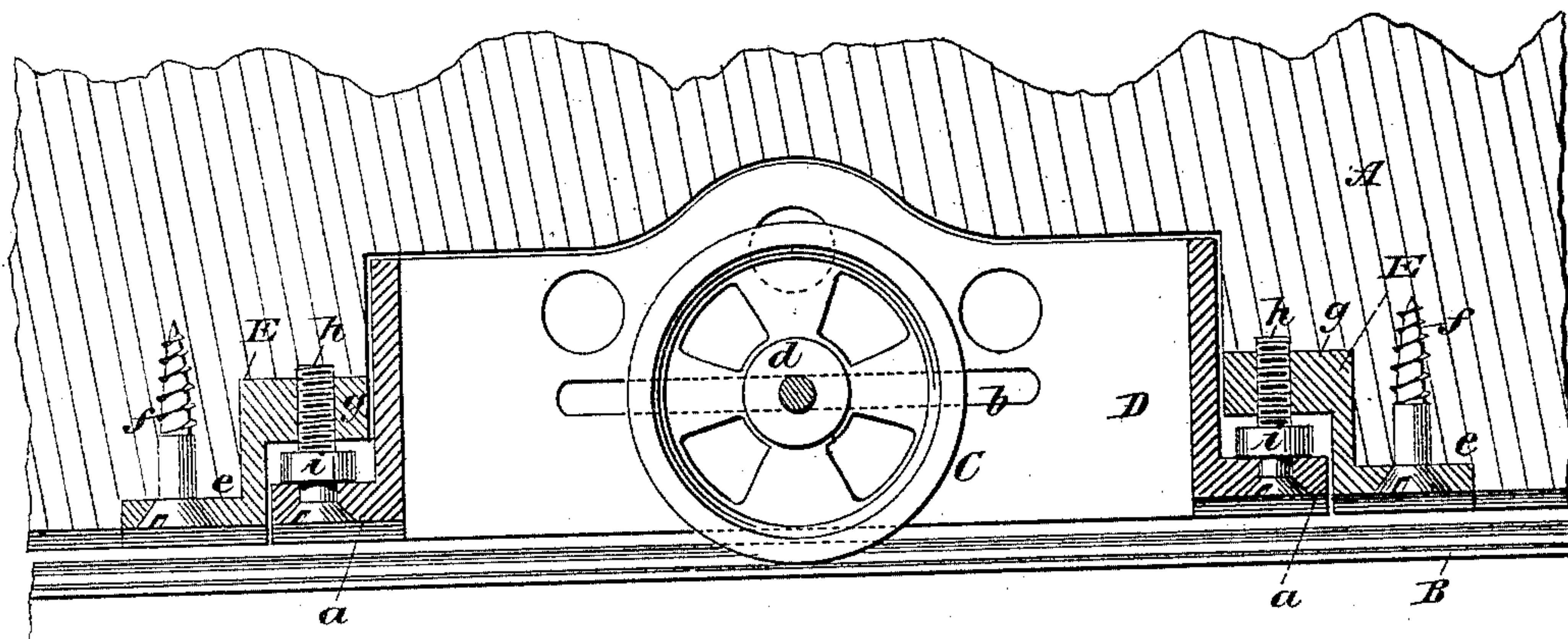


Fig. 2.

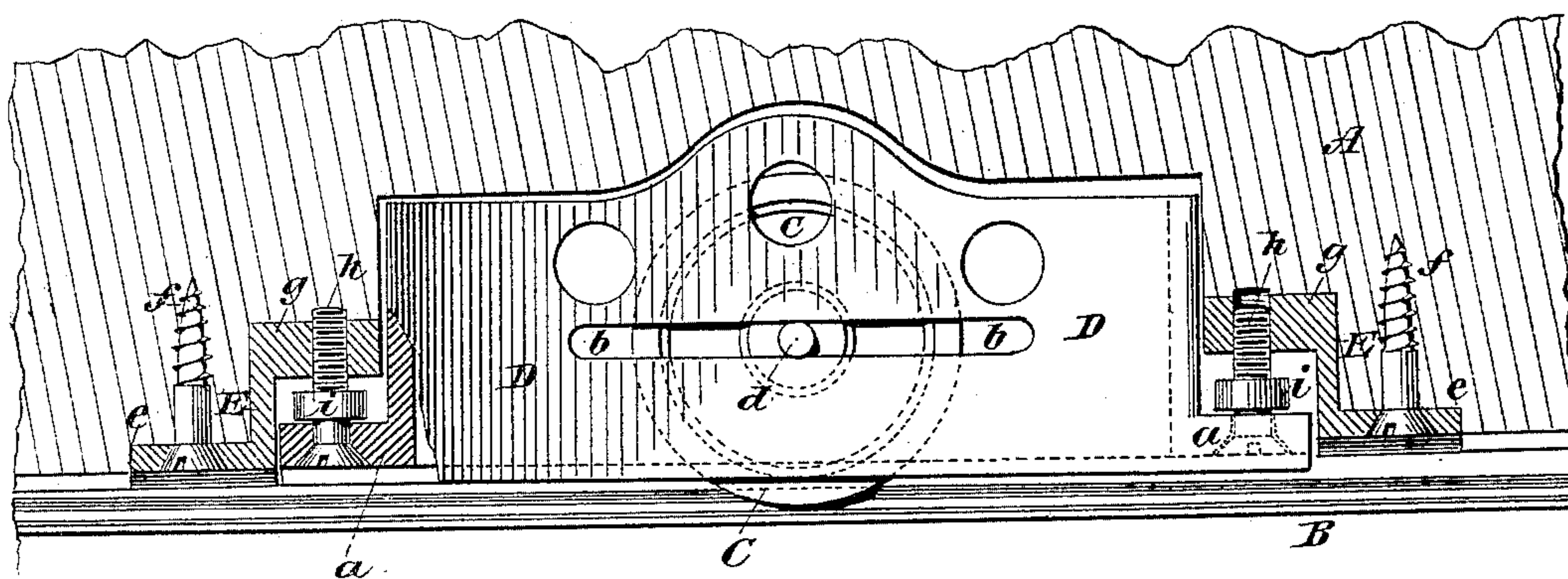
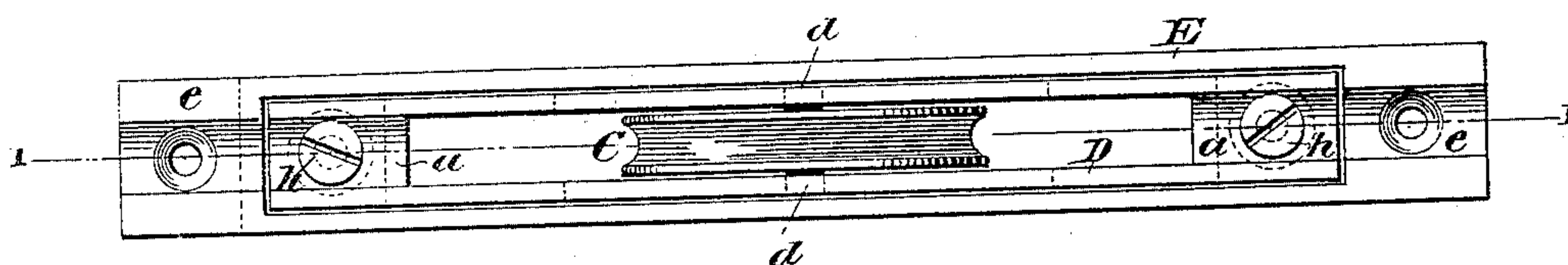


Fig. 3.



WITNESSES:
Gustave Dietrich.
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UNITED STATES PATENT OFFICE.

WILLIAM EGER, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF, GEORGE W. FRANCISCO, AND CHARLES H. FRANCISCO, OF SAME PLACE.

SHEAVE FOR SLIDING DOORS.

SPECIFICATION forming part of Letters Patent No. 467,735, dated January 26, 1892.

Application filed November 11, 1891. Serial No. 411,543. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM EGER, a resident of Brooklyn, in the county of Kings and State of New York, have invented an Improved Sheave for Sliding Doors, of which the following is a specification.

My invention relates to certain new and useful improvements in sheaves for sliding doors; and it consists in the novel arrangement and combination of parts hereinafter described and claimed, whereby said sheave is capable of adjustment on first application, and afterward should said door warp or the floor sag.

In the drawings, Figure 1 is a vertical section taken on the line 1 1 of Fig. 3, showing the improved sheave as normally attached to a door. Fig. 2 is a similar view showing my improved sheave adjusted to overcome the sagging of the floor, and Fig. 3 is a bottom view of the improved sheave.

A is a door recessed to receive the sheave that shall support it on the rail B. The sheave proper or wheel C is supported in a box D, which is adapted to enter the recess of the door, and provided with end flanges *a*, as is clearly shown in Figs. 1 and 2. The side walls of the box D are by preference slotted, as shown at *b*, to receive in the slots the shaft *d* of the wheel C.

E is an outer box adapted to embrace the box D, as shown in Fig. 3. This outer box E is also provided with end flanges *e*, through which screws *f* are passed for securing this outer box firmly to the door.

The end flanges *e* of the outer box E are intended to be set flush with the edge of the door and to remain so at all times. The outer box E has, above the end flanges *a* of the inner box D, a partial top wall *g*, which reaches nearly to the ends of the box D, as shown in Figs. 1 and 2, and which is intended to receive screws *h*, that are carried by the inner box, and is threaded to receive the same. The screws *h* pass through apertures in the end flanges *a* of the inner box, and are headed at their lower ends; but directly above these

end flanges *a* the screws *h* have shoulders *i*, rigidly affixed to them, so that on turning the said screws *h* their relation to the inner box D will not be disturbed, the only effect being to draw said inner box farther upward or move it farther downward at either or both ends, according as either or both screws or sets of screws are turned for the purpose. Hence by means of these screws *h* the inner box, which carries the sheave proper C, can be adjusted so that its lower surface shall be in exact alignment with the lower edge of the door, as in Fig. 1, or so that it will be out of alignment with the lower edge of the door, as in Fig. 2. Thus by the use of these telescopic boxes D E, of which the outer is rigidly affixed to the door in a definite position, while the inner is adjustable in manner stated, I am enabled to fit the sheave to the door so that the latter may properly ride on the rail B.

It frequently happens that the adjustment of sheaves to sliding doors is a matter of great difficulty, requiring the nicest kind of judgment and manipulation, and this occurs both when doors are first fitted into new buildings and also at later stages, when they may have warped or the rails or floors settled. By the use of my invention this adjustment can be very readily effected by an ordinary mechanic. All it needs is to bring the inner box D into the proper position by the aid of the screws *h*, that the wheel C will ride on the rails, even if the latter should have sagged or the door slightly warped.

What I claim, and desire to secure by Letters Patent, is—

The combination of the sheave carrying inner box D, having end flanges *a*, with the screws *h*, having shoulders *i*, carried by said end flanges, and with the outer box E, which is adapted to receive the screws *h* and to be securely fastened in a door, all as and for the purpose herein shown and described.

WILLIAM EGER.

Witnesses:

HARRY M. TURK,
HARRY E. EVERDING.