No. 868,422. PATENTED OCT. 15, 1907.

A. E. FISCHER.

WELL DOOR FOR DUMB WAITERS.

APPLICATION FILED MAY 8, 1907.

Fig. 1.

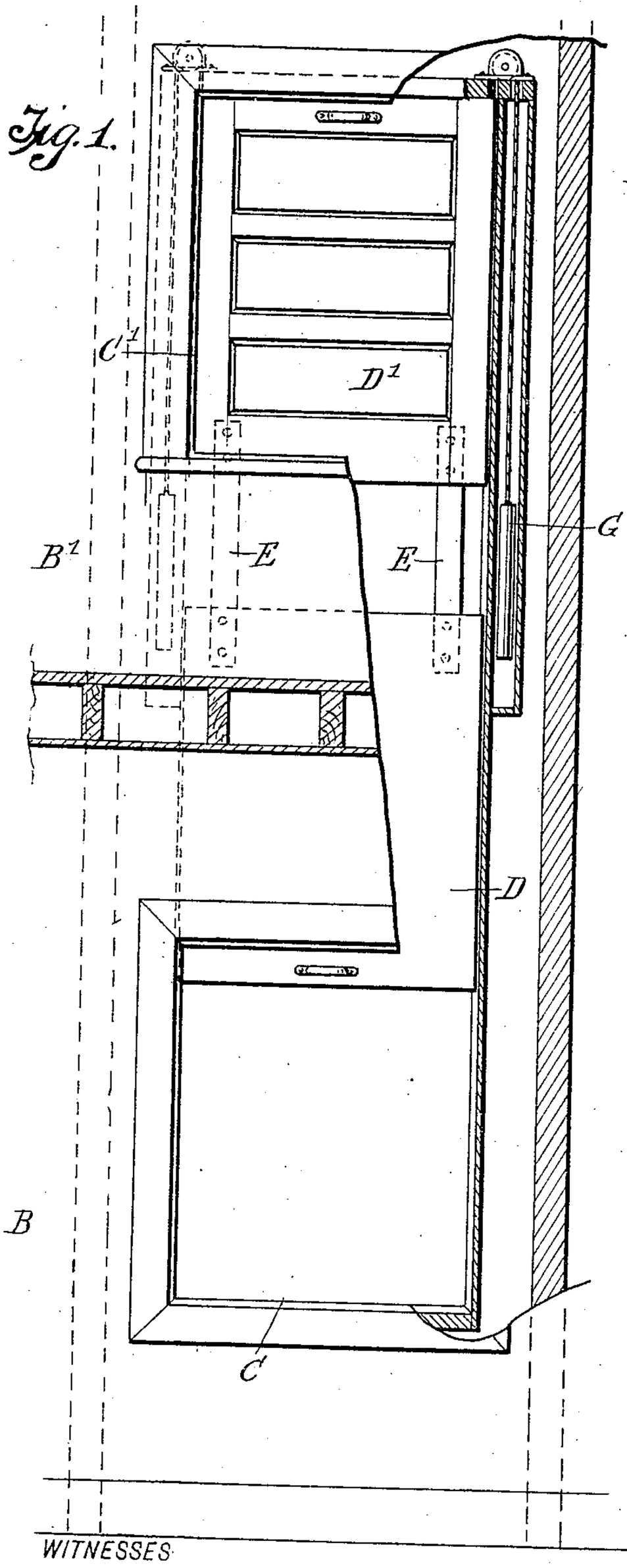


Fig. 2.

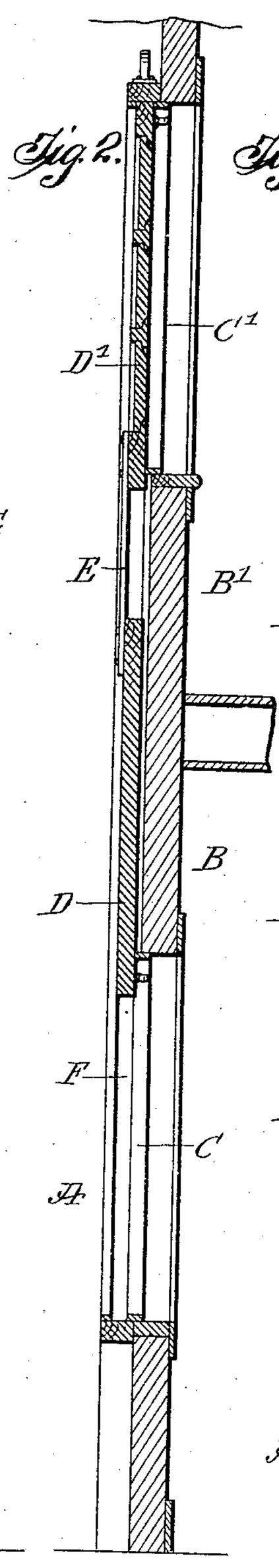
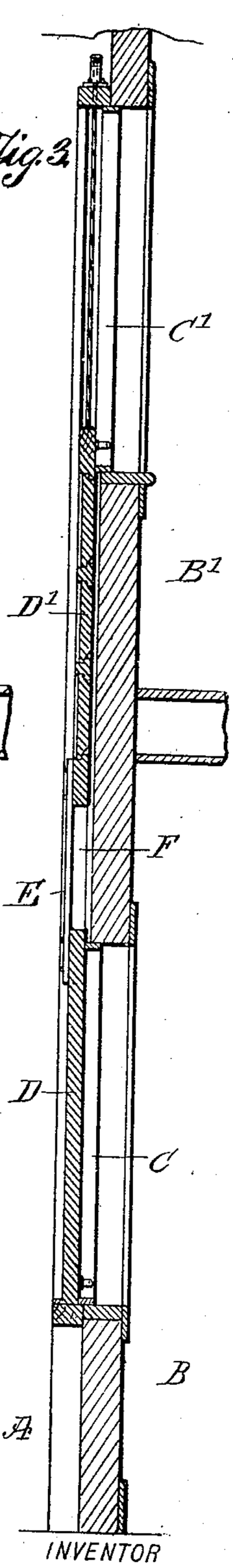


Fig. 3.



WITNESSES

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WELL-DOOR FOR DUMB-WAITERS.

No. 868,422. Specification of Letters Patent. Patented Oct. 15, 1907.

Application filed May 8, 1907. Serial No. 372,600.

To all whom it may concern:

Be it known that I, ADAM E. FISCHER, a citizen of the United States, and a resident of the city of New York, (borough of Brooklyn,) in the county of Kings and State of New York, have invented new and useful Improvements in Well-Doors for Dumb-Waiters, of which the following is a full, clear, and exact description.

The invention relates to dumb-waiters and similar hoist ways, and its object is to provide certain new and useful improvements in well doors for the elevator shaft, whereby the entrance opening to the shaft on one floor is closed when the entrance opening to the shaft on another floor is opened and vice versa, thus preventing draft in the shaft and thereby reducing the spread of flames by way of the shaft in case of a fire in the building in which the dumb waiter is located.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of the improvement, parts being in section and parts being broken out; Fig. 2 is a transverse section of the same, and Fig. 3 is a similar view of the same showing the doors in a different position.

The dumb waiter shaft or well A is provided at different floors B, B′ of the building with entrance openings C, C′ arranged at a convenient distance above the floor and adapted to be opened and closed by doors D, D′ rigidly connected with each other by straps or bars E of metal or other suitable material. The doors D, D′ slide in suitable guideways F and the upper door D′ is hung on a suitable counter-balance G to permit easy sliding of the door in a vertical direction. Now by reference to the drawings it will be seen that the doors D, D′ are connected with each other in such a manner that when one door is moved into an open position the other door is moved into a closed position and vice versa.

As shown in Figs. 1 and 2, the doors D and D′ are in an uppermost position, that is, the door D is open and uncovers the entrance opening C while the door D′ is closed, and entrance to the shaft A from the floor B′ is prevented, when either of the doors D or D′ is moved downward, and both doors move simultaneously, that is, the door D′ moves into an open position while the door D moves into a closed position. Thus in either case the entrance opening to the shaft A of one floor is closed while the other is opened, and consequently draft in the shaft is reduced to a minimum, and hence spread of flames by way of the shaft in case of a fire within the building is prevented.

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

1. The combination with the shaft provided with openings for the upper and lower floors, said openings being above the level of the respective floors, of doors for closing said openings, said doors being connected so that when one door is moved to open the corresponding floor opening, the other door is moved to close the opening corresponding to said last-named door.

2. The combination with the shaft provided with openings for the upper and lower floors, said openings being above the level of the respective floors, of doors for the respective openings, bars rigidly connecting said doors, and means for movably supporting the doors, said doors being so arranged that when one door is moved to open the corresponding floor opening, the other door is moved to close the opening corresponding to the said last-named door.

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

ADAM E. FISCHER.

Witnesses:
THEO. G. HOSTER,
JOHN P. DAVIS.