

J. WENDLER.
DOOR FOR HOTEL ENTRANCES AND THE LIKE.
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969,582.

Patented Sept. 6, 1910.

Fig. 1.

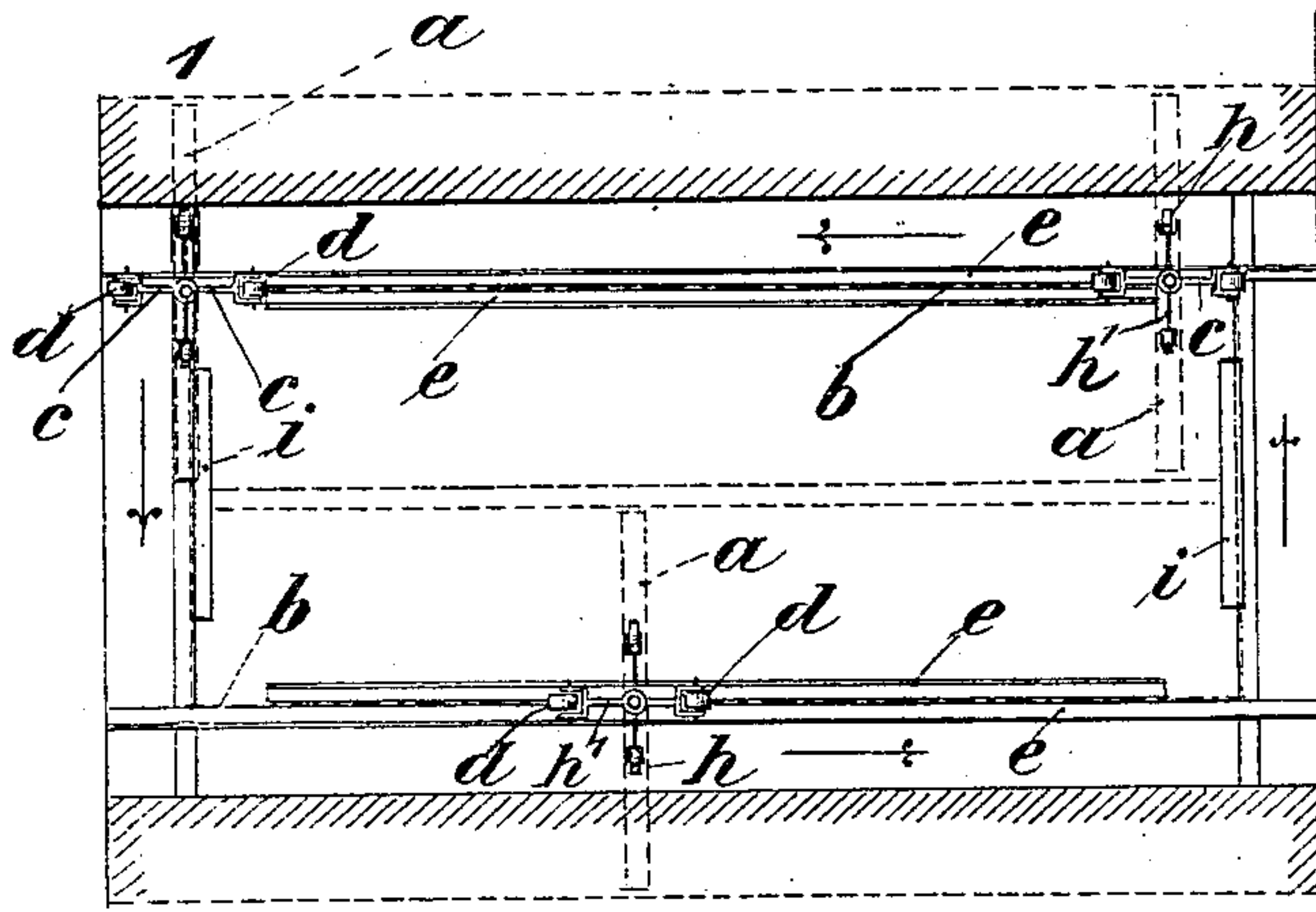


Fig. 2.

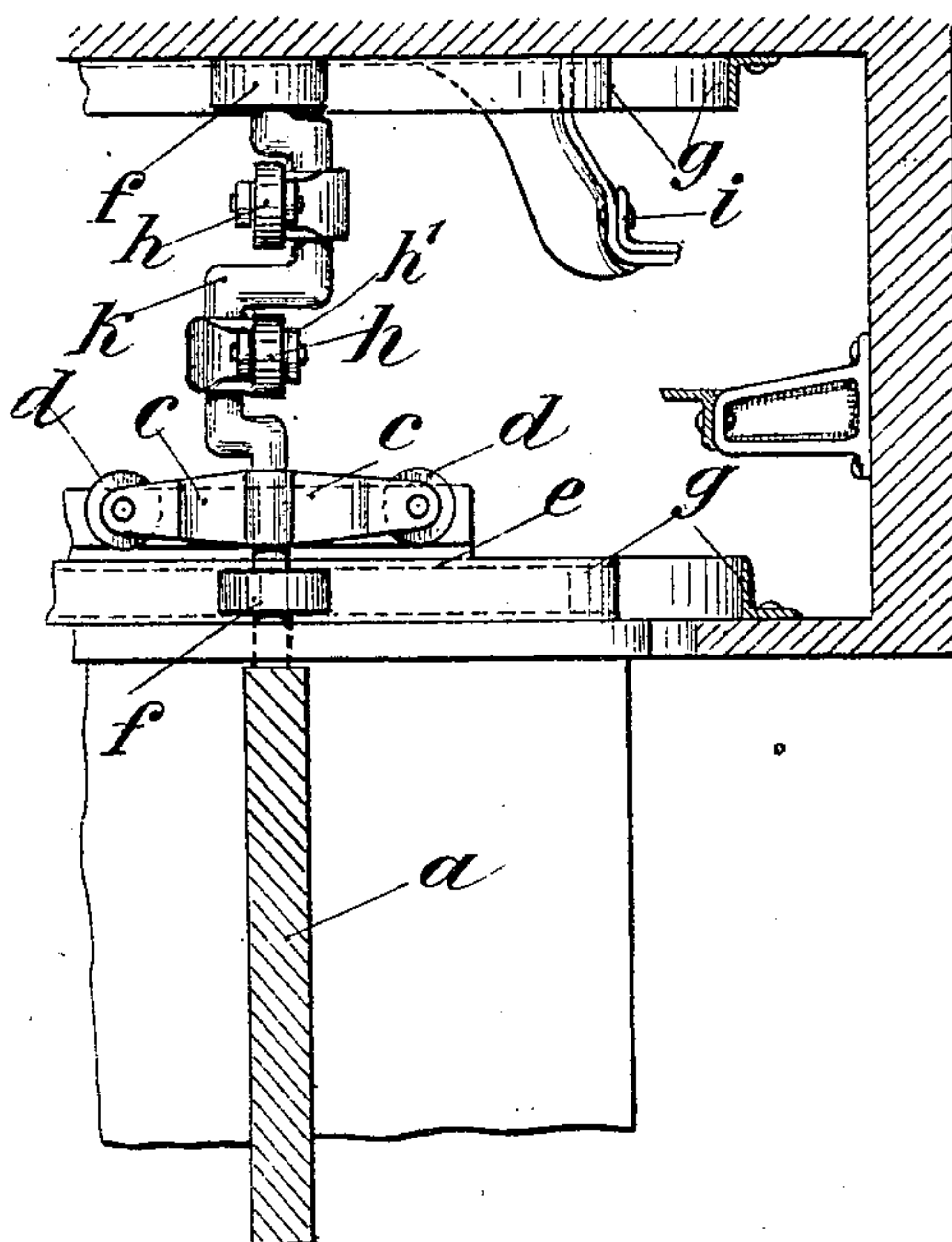
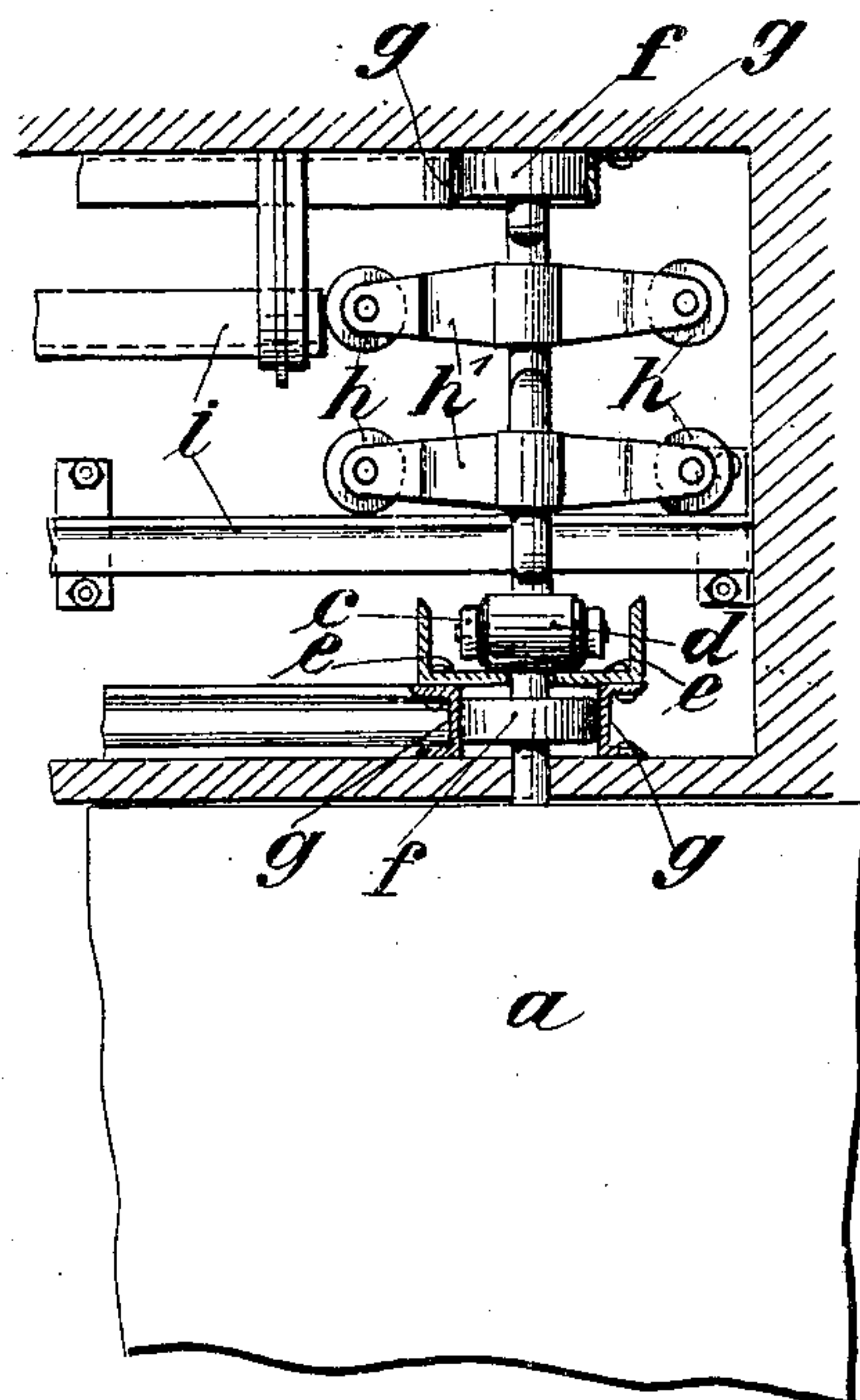


Fig. 3.



Witnesses:

T. P. Britt
E. C. Duffey

Inventor:

Julius Wendler
O. C. Duffey
#145.

UNITED STATES PATENT OFFICE.

JULIUS WENDLER, OF BERLIN, GERMANY.

DOOR FOR HOTEL-ENTRANCES AND THE LIKE.

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To all whom it may concern.

Be it known that I, JULIUS WENDLER, a subject of the King of Prussia, residing at Nos. 117/118, Leipzigerstrasse, Berlin, Germany, have invented new and useful Improvements in Doors for Hotel-Entrances and the Like, of which the following is a specification.

My invention relates to doors for hotel entrances and the like.

Besides rotary doors arrangements are also well-known in which entrances are closed by doors which are moved in two parallel passages, the doors being kept at such a distance from one another by chains that both the passages are constantly closed by one door. The chains are guided by suitable means in such manner that the doors are moved at right angles to the intrados of the passages and are conveyed at the end of the same from the one into the other. Now in the devices known heretofore the doors are removed from one passage into the other by rotating or driving the doors by the chain passing around sprocket wheels. The doors turn and consequently move at a considerably greater velocity than that at which they move when traveling in the passages, whereby the persons going in and out are endangered.

A primary object of my invention is to remedy this defect. According to my invention the doors are no longer swung around or rotated but displaced longitudinally when being moved in a plane at right angles to their direction of motion in the passages.

The accompanying drawing diagrammatically illustrates one embodiment of my invention by way of example.

In said drawing:—Figure 1 is a horizontal section showing my entire arrangement; Fig. 2 is a vertical section through the top portion of the door showing the arrangement of the supporting and guide rollers for the door, and Fig. 3 is a similar view at right angles to the latter.

Referring to the drawing, *a* designates the doors and *b* the chain driving the same. Said chain is guided suitably on idlers not shown. On the supports *k* above the doors I arrange arms *h'*, *c* in the form of a cross on which are mounted the guide rollers *h* and supporting rollers *d* for the door, re-

spectively, are arranged, as shown in Figs. 2 and 3; the rollers *d* run on guide rails *e* and guide the doors in the passages, and in order to prevent the doors oscillating rollers *f* are arranged to run between the rails *g*. Similar guides are likewise preferably arranged at the top ends of the supports *k* in order to guide the doors more certainly. One of the guide rails *e* is interrupted at each end of the passages, whereas the guides *g* are continuous.

When the door has arrived into the position 1 shown in dotted lines in Fig. 1 the guide rail *e* does not prevent its being displaced at right angles to its direction of motion in the passages. After occupying the position 1 the rollers *h* run onto the guide rails *i* which are arranged at right angles to the guides *e* and parallel to the plane of the door. While being removed into the second passage the door is thus carried by the rollers *h* on the rails *i* and the rollers *f* guide it between the rails *g*. Thus the door is moved in its own plane and is not rotated.

It is to be understood that the guiding means for the door shown in the illustrative embodiment is not the only form of the same which may be provided according to my invention.

I claim:—

1. The combination, with two parallel passages connected at their ends, a door normally closing each passage, and means for guiding the doors transversely through the passages, of means for guiding each door longitudinally at right angles to the direction of motion thereof in said passages from one passage into the other.

2. The combination, with two passages connected at their ends, a door, a support having arms secured thereto, and rollers on said arms, of guide rails arranged longitudinally in said passage, and guide rails arranged at right angles to the former rails at the ends of said passages.

In witness whereof I have hereunto signed my name this 24th day of January 1910, in the presence of two subscribing witnesses.

JULIUS WENDLER.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.