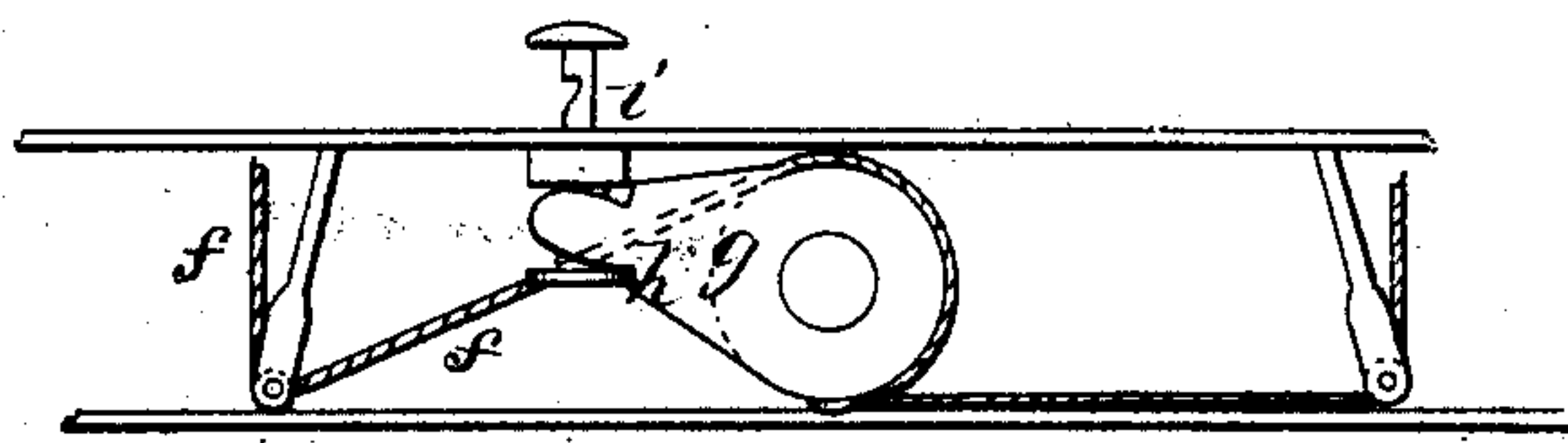
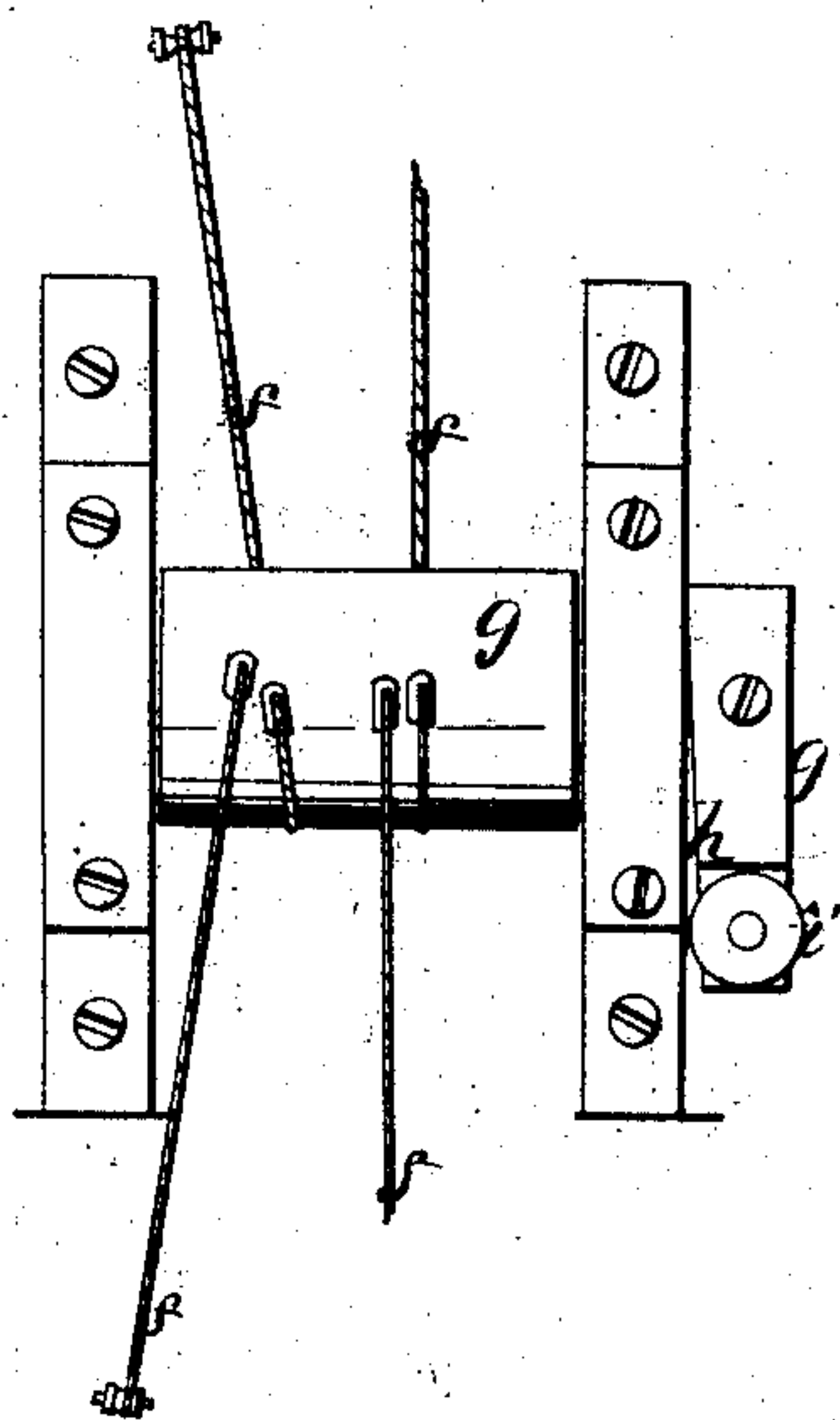
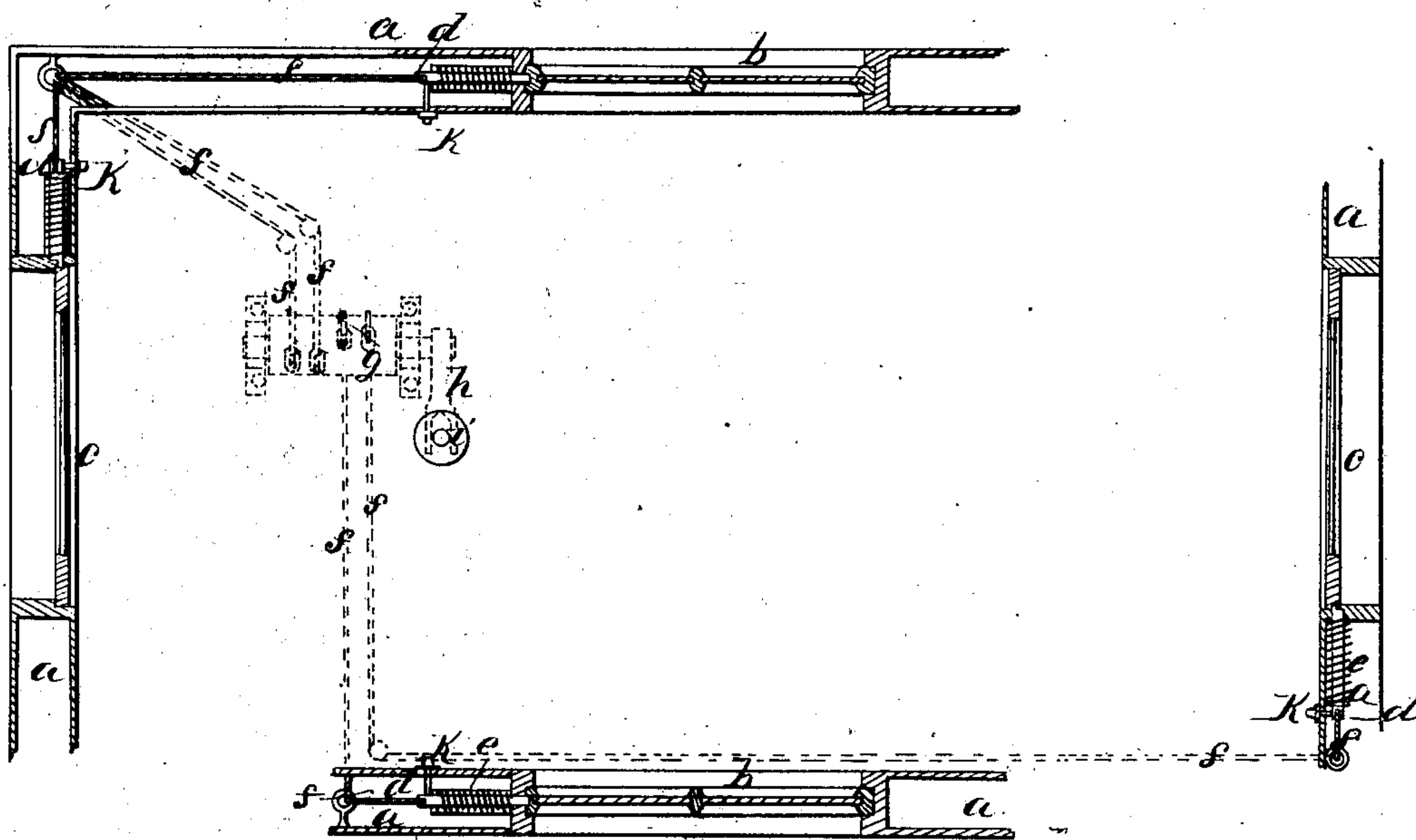


*A. H. Boyd,*  
*Door and Window Bolt.*

*N<sup>o</sup> 69,753.*

*Patented Oct. 15, 1867*



*Witnesses,*  
*W. M. Frothingham*  
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# United States Patent Office.

A. H. BOYD, OF ROCKVILLE, MASSACHUSETTS.

Letters Patent No. 69,753, dated October 15, 1867.

## DEVICE FOR LOCKING DOORS AND WINDOWS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. H. BOYD, of Rockville, in Norfolk county, and State of Massachusetts, have invented an Improvement in Locking Doors and Windows; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practise it.

The invention relates to a method of so securing doors and windows of houses as to enable them to be simultaneously fastened or unfastened, and prevent their being opened from the outside. With the employment of common door-locks, operated by keys, and from the outside as well as from the inside of the door, but very slight protection is afforded by them against entrance, as expert burglars have no particular trouble in picking such locks. And where bolts or locks are so applied as only to be operated from the inside of doors and windows the protection is not much greater, as house-breakers easily manage to obtain access to the means for shoving the bolts, and enter about as they please; common locks and bolts offering but slight hindrances to their operations. This is especially true in hotels, where many consecutive rooms, all bolted upon the inside, are sometimes entered in one operation by burglars or hotel thieves.

The object of my invention is to secure any number of doors and windows by a system of locks or bolts, all connected with and so as to be operated from some central point in the house, provision being made for allowing each door or window to be opened from the inside, the means for effecting such opening being, however, preferably placed at such distance from the door as not to be accessible from the outside by reaching through with the arm. It is in such a system as this that my invention consists.

To illustrate the same I have represented in the drawing a system applied to several doors and windows, the drawing showing a horizontal section in line of the bolts.

*a a* denote several walls or partitions of a house; *b b* may be supposed to represent the windows of two rooms, and *c c* either the doors of two rooms or outer doors. To each door or window-frame, and projecting into the partition or furring space, is a bolt, *d*, playing through the frame, and shooting into a bolt-socket in the door or window, each bolt having a spring, *e*, attached to it, that throws the bolt into the door or window and locks it. From each of these bolts a cord or wire, *f*, runs through suitable guides and sheaves to a drum or cylinder, *g*, hung in suitable bearings, so that by turning the drum all the cords or wires are simultaneously wound around its surface, and all the bolts thereby drawn back. One end of the drum-shaft has an arm, *h*, to which is jointed a vertical rod or stem, *i*, which projects up into the room or office at whatever point it may be desirable to locate the device by which the system of bolts is controlled. The wires or cords, and the sheaves and guides are located in the partitions or walls, and between the floors and ceilings, and the drum to which they are all attached is placed beneath the floor; the whole arrangement, except the locking ends of the bolts and the operating end of the stem *i*, being enclosed in the same manner as are bell wires or gas pipes of a house, and for greater security they may be run through metal pipes. The bolt of each door and window is to be provided with means for operating it from the inside of the room, this means being a knob, *k*, or any other suitable device, and each bolt may also be so arranged that it may be connected with or disconnected from the system, as circumstances may render desirable.

To lock all the doors and windows connected with the system the stem *i* is raised, when the springs of the bolts will shoot them into their sockets, while they may be simultaneously withdrawn by depressing the stem.

The provision for operating the bolts may, of course, be greatly modified and varied from that shown, which is merely intended to represent the simplest organization of the system. By this system either the doors and windows of a single room, or all those of a house, or any number of such doors and windows may be kept fastened at proper times from one central point, and in such manner that all the bolts shall be inaccessible, except to occupants of the rooms, and at the centre of the system.

I am aware that a mechanism has been devised for effecting the release of a series of store-shutters from their bolt fastenings at one point, so that when the bolts are simultaneously withdrawn the shutters may be simultaneously thrown open by springs. But such arrangement had no provision for locking a series of windows, doors, or shutters from one point, and was incapable of effecting a simultaneous locking of bolts. The principal object of my arrangement is to enable me to secure all the doors and windows at once, and from one point, though I find it essential to also have a provision for simultaneously releasing them.

I claim the system of bolts so connected and arranged that all the bolts may be simultaneously operated from one point, both to lock and unlock, each bolt also having an independent provision for operating it from the inside of the room, all substantially as set forth.

A. H. BOYD.

Witnesses:

F. GOULD.

L. H. LATIMER.