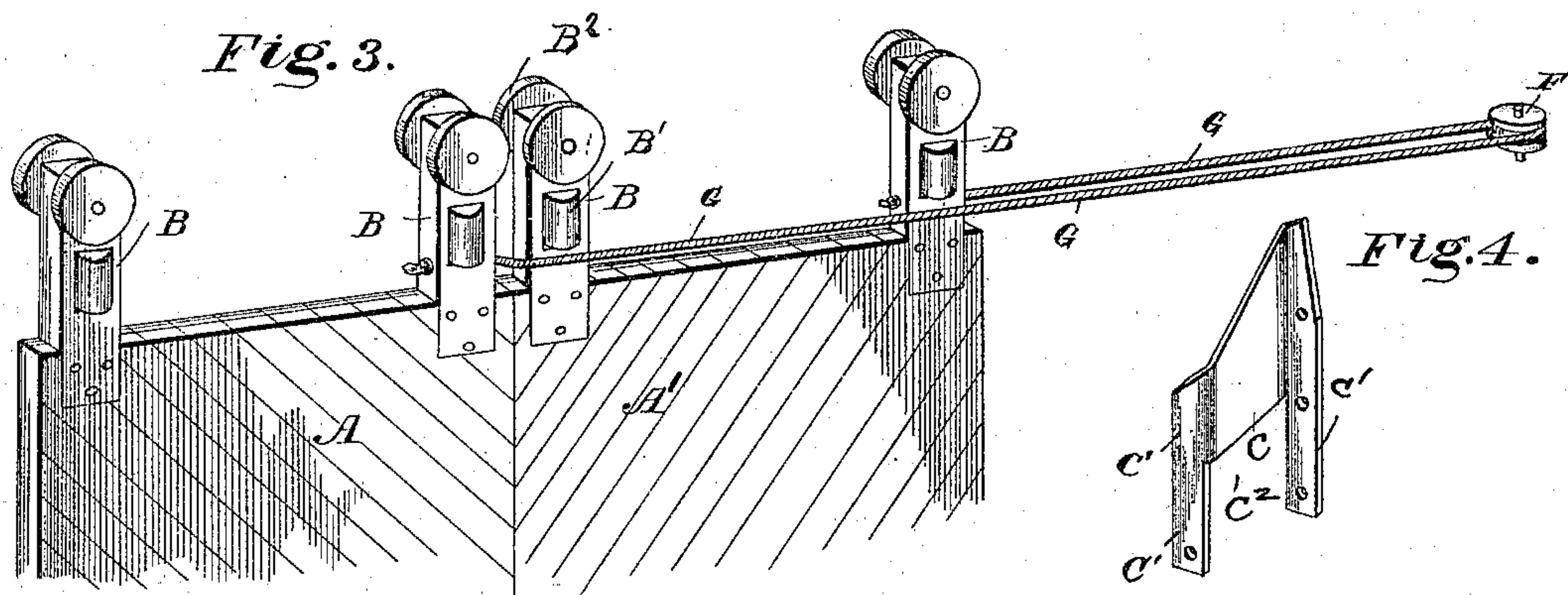
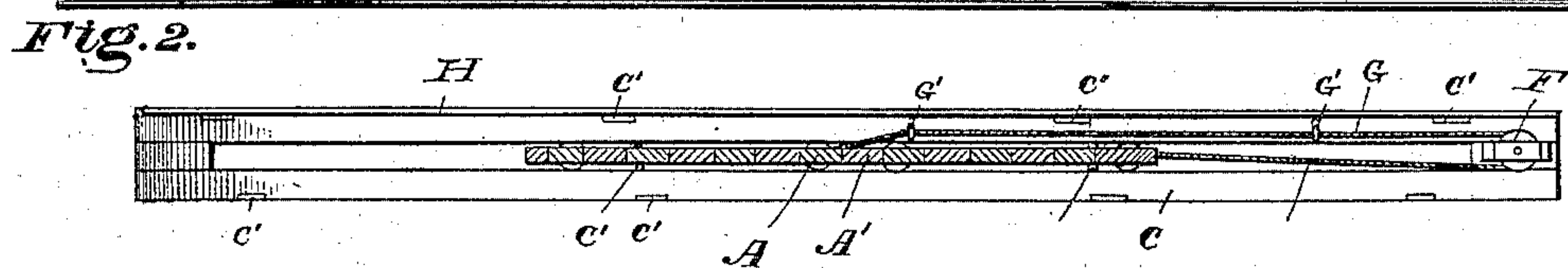
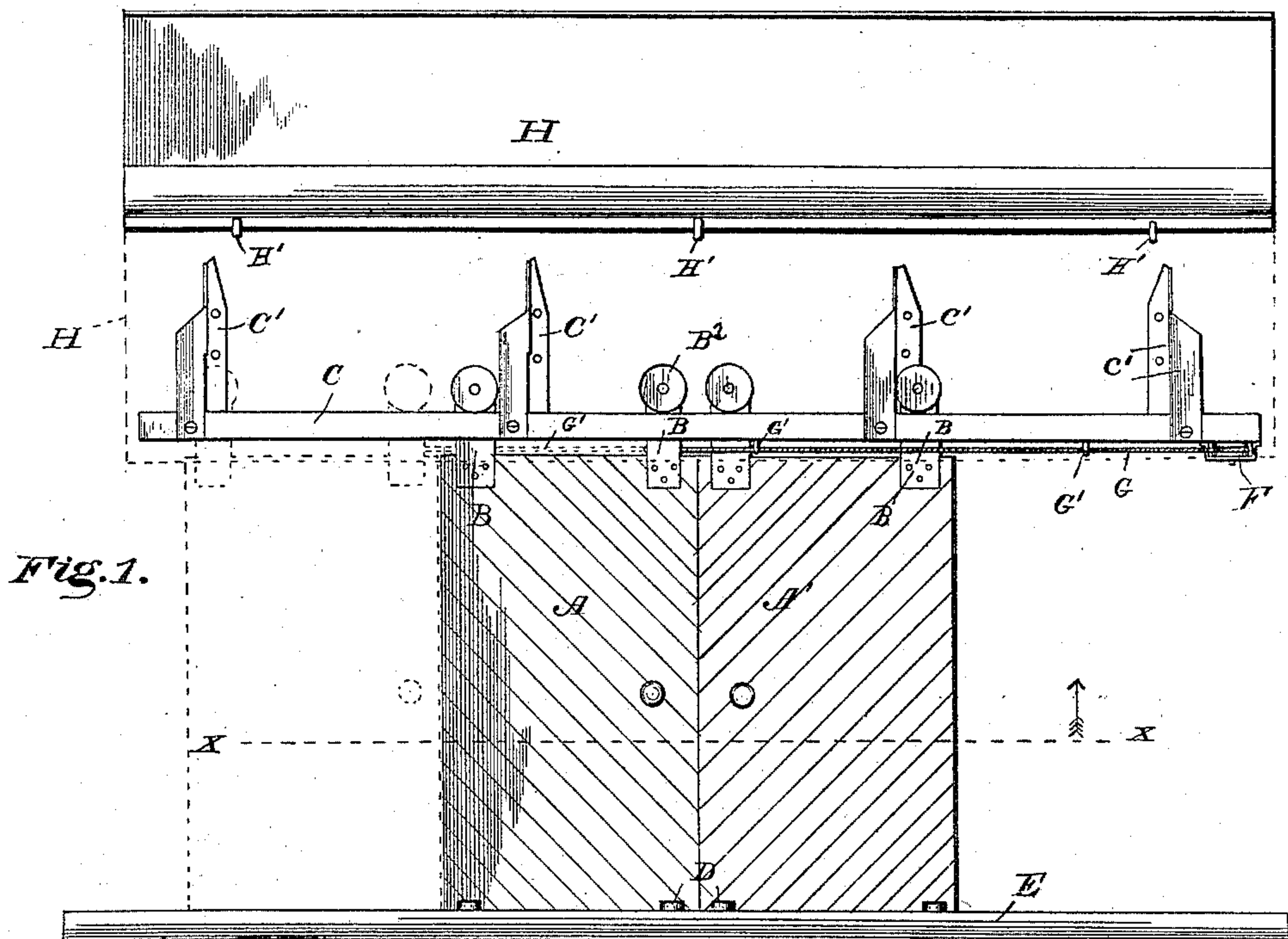


(No Model.)

J. S. McANARNEY.  
SLIDING DOOR.

No. 492,502.

Patented Feb. 28, 1893.



Witnesses

J. Ulmer Jr.

Chas. S. Hyer

By his Attorneys,

Chas. S. Hyer

Inventor

John S. McAnarney.



# UNITED STATES PATENT OFFICE.

JOHN S. MCANARNEY, OF CHANDLER, ASSIGNOR OF ONE-HALF TO T. C. HOUGH, OF OKLAHOMA, OKLAHOMA TERRITORY.

## SLIDING DOOR.

SPECIFICATION forming part of Letters Patent No. 492,502, dated February 28, 1893.

Application filed March 16, 1892. Serial No. 425,125. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN S. MCANARNEY, a citizen of the United States, residing at Chandler, in the county of A and Territory of Oklahoma, have invented a new and useful Improvement in Sliding Doors, of which the following is a specification.

This invention relates to sliding-doors, and particularly to hangers of that class adapted to coact with the doors in opening and closing the same, and consists in the construction and arrangement of the parts thereof as will be more fully described hereinafter, and pointed out in the claims.

The object of this invention is to provide a device for double or two-wing sliding doors by which the movement imparted to one door will be transmitted to the other door to move simultaneously therewith either for opening or closing; the parts being of simple and effective construction and arrangement, easily mounted in position, and readily operated.

In the drawings—Figure 1 represents a front elevation of a portion of framework having my improved construction and arrangement applied thereto. Fig. 2 is a longitudinal sectional view on the line  $x-x$  of Fig. 1 and looking in the direction of the arrow. Fig. 3 is a perspective view of the upper portion of the doors, the operating cord or rope and necessary pulleys shown removed from the track. Fig. 4 is a detail view of one of the hanger-brackets.

Referring to the drawings, A and A' designate suspended double or wing-doors. The upper portions of said doors are provided with hangers B with vertical and horizontal wheels B' and B<sup>2</sup> therein and thereon, mounted in connection with a track C suspended or held in fixed position by brackets C' secured to the framework. The lower portion of each of said doors is provided with vertical rollers D, adapted to contact with the side-wall of a lower guideway E.

To one end of the track C, on the under side thereof, is secured a pulley F around which is passed a rope, cable, or chain G, and movable through guides G', secured to the under side of said track C. One end of said rope, cable, or chain is secured to one of the hangers B of the door A, and the opposite end of

said rope, cable, or chain is secured to one of the said hangers on the door A'. It will be understood that this attachment of the rope, cable, or chain G may be reversed so that the doors may be operated either to open or close the other; as shown, however, the attachment of the cable or chain G is made to the hanger B situated nearest the edge thereof which abuts against the adjacent door A' when the doors are closed, and the opposite end of said cable, chain, or rope is secured to the hanger on the door A' farthest from its abutting edge with said door A. By this means it will be seen that when the door A is opened, as shown in dotted lines, Fig. 1, it draws on the rope, cable, or chain G and pulls the door A' adjacent to the pulley F, when the doors are opened. To close the doors, the door A' is moved away from the pulley F toward the door-opening, thereby also drawing on the rope, cable, or chain G and simultaneously moving the door A toward the door A' to close the door-opening.

Over the track, hangers, and upper ends of the doors is mounted a sheathing or covering H, which is hinged to the framework by hinges H' so that it can be raised to fix the several parts should they become disarranged. This sheathing or cover H shields and protects the said parts from the action of the weather, and prevents dust and dirt from gathering thereon.

The construction and arrangement of the several parts of my improved device are so simple that it requires but little expense to adopt the same and mount it in position for use.

It is obviously apparent that many minor details in the construction and arrangement of parts could be changed and substituted for those shown and described without in the least departing from the nature or spirit of my invention, as has thus far been explained.

In Fig. 4 a detail view of one of the hangers is shown which consists of a web  $c$  with flanges  $c'$  projecting from opposite edges thereof in reverse direction and having a bifurcation  $c^2$  between the lower ends thereof. The said flanges  $c'$  straddle the two parts of the track C and are connected to the outermost rails or portions thereof, and the innermost of said



flanges is secured to the support of the device entire.

Having thus described my invention, what I claim as new is—

5 1. The combination of double doors adapted to move simultaneously to and from each other, and having hangers connected to the upper ends of the same and carrying rollers therein, a track on which said rollers are mov-  
10 ably mounted, other hangers connecting said track with a support and having oppositely-disposed and reversely-extending flanges, and a bifurcation between the lower ends of said flanges, and a single rope, cable, or chain hav-  
15 ing one end thereof attached to the innermost hanger on one door and the other end thereof attached to the rearmost hanger on the other door, substantially as described.

2. The combination of double doors adapted  
20 to move simultaneously to and from each other and having hangers connected to the upper ends thereof, a track on which said hangers are movable, other hangers secured to a support and holding said track in proper  
25 position and formed with a web having flanges on opposite edges thereof bent at an angle thereto and extending in reverse directions, and also provided with a bifurcation between the lower ends of said flanges, a pulley at-  
30 tached to the lower side of one end of said track, and a single rope, cable, or chain having one end thereof attached to the innermost hanger on one door, passed around said pulley, and the other end thereof connected to  
35 the rearmost hanger on the other door, substantially as described.

3. The combination of double doors adapted to move simultaneously to and from each other and supported by hangers, a track on which said hangers have movement, other  
40 hangers connecting said track with a support and having oppositely-disposed and reversely-extending flanges and a bifurcation between the lower ends of said flanges, a pulley secured to the under side of one end of said  
45 track, guides on the under side of said track, and a single rope, cable, or chain having one end thereof attached to the innermost hanger of one door, passed through said guides and around said pulley, and the opposite end  
50 thereof connected to the rearmost hanger of the other door, substantially as described.

4. The combination with the track, of hangers having oppositely-disposed and reversely-extending flanges with a bifurcation between  
55 the lower ends thereof adapted to embrace and be secured to the portions of the track, substantially as described.

5. The track-hanger as herein described, consisting of the web having flanges on oppo-  
60 site edges thereof, bent at an angle thereto, and extending in reverse directions and having a bifurcation between the lower ends thereof, substantially as described.

In testimony that I claim the foregoing as  
65 my own I have hereto affixed my signature in the presence of two witnesses.

JOHN S. McANARNEY.

Witnesses:

FRANK A. NIBLACK,  
M. D. LOSEY.