

No. 630,733.

Patented Aug. 8, 1899.

R. OLIVER.
DOOR HANGER AND TRACK.

(Application filed Dec. 16, 1898.)

(No Model.)

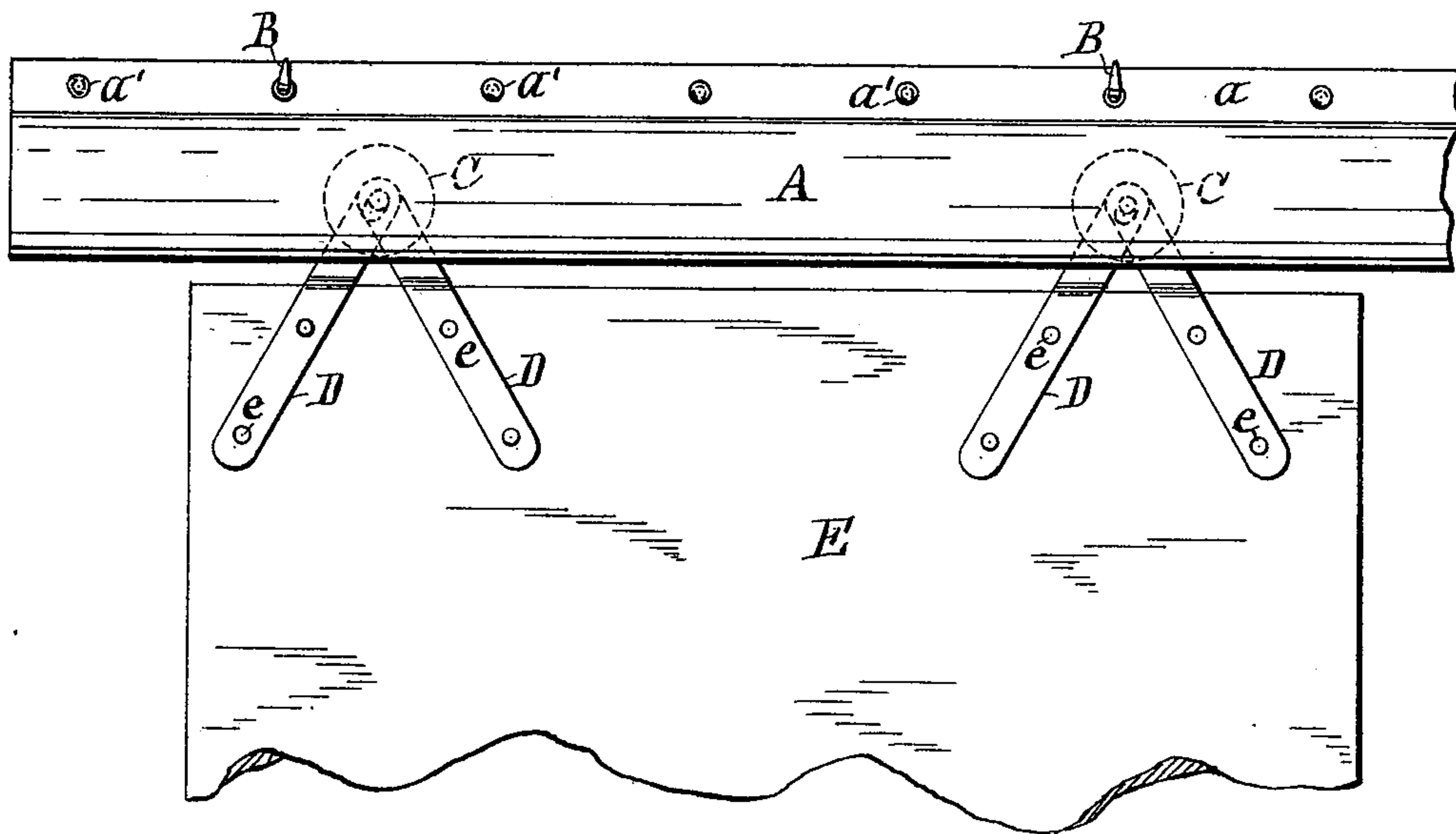


Fig. 1.

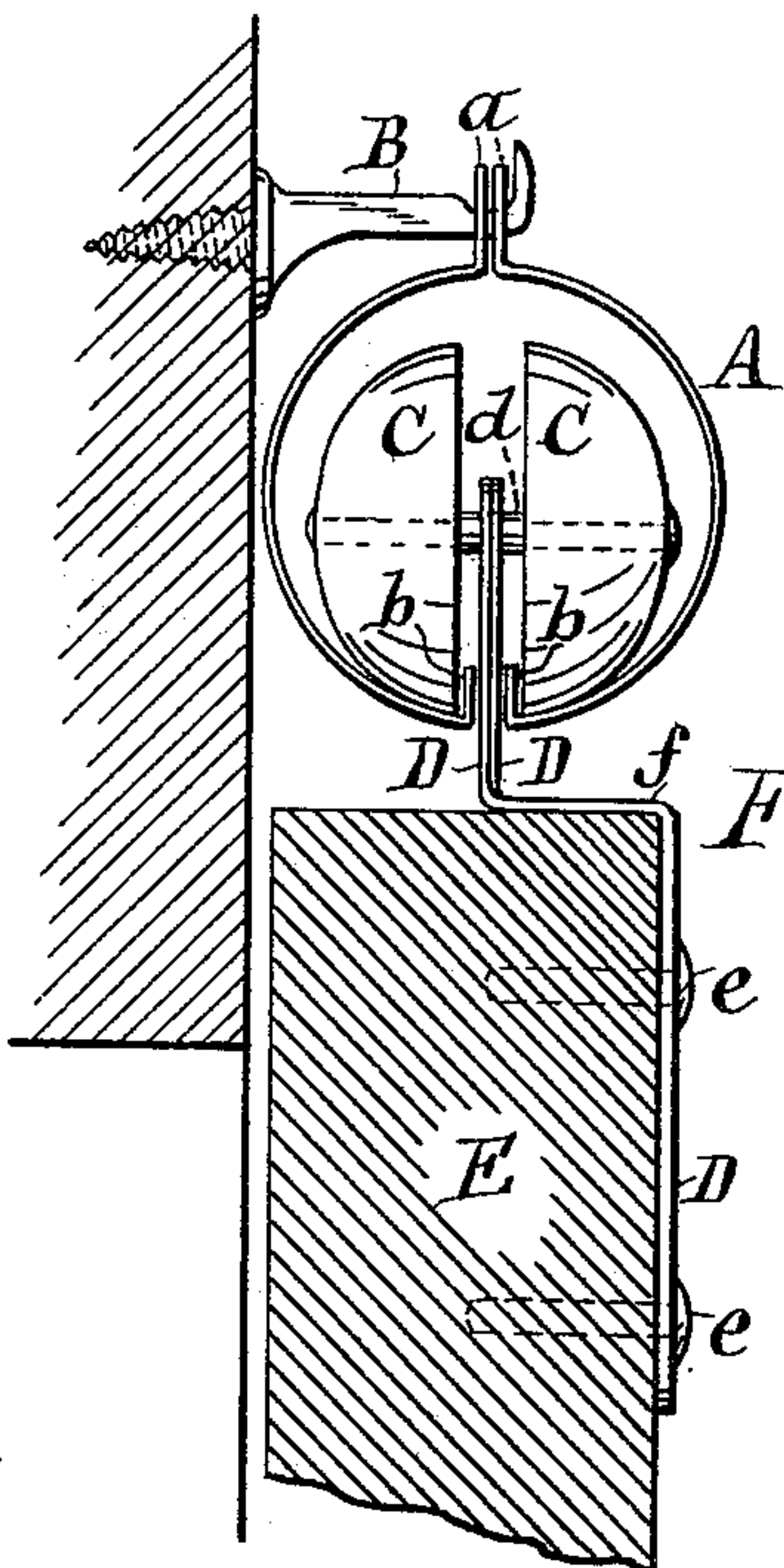


Fig. 2.

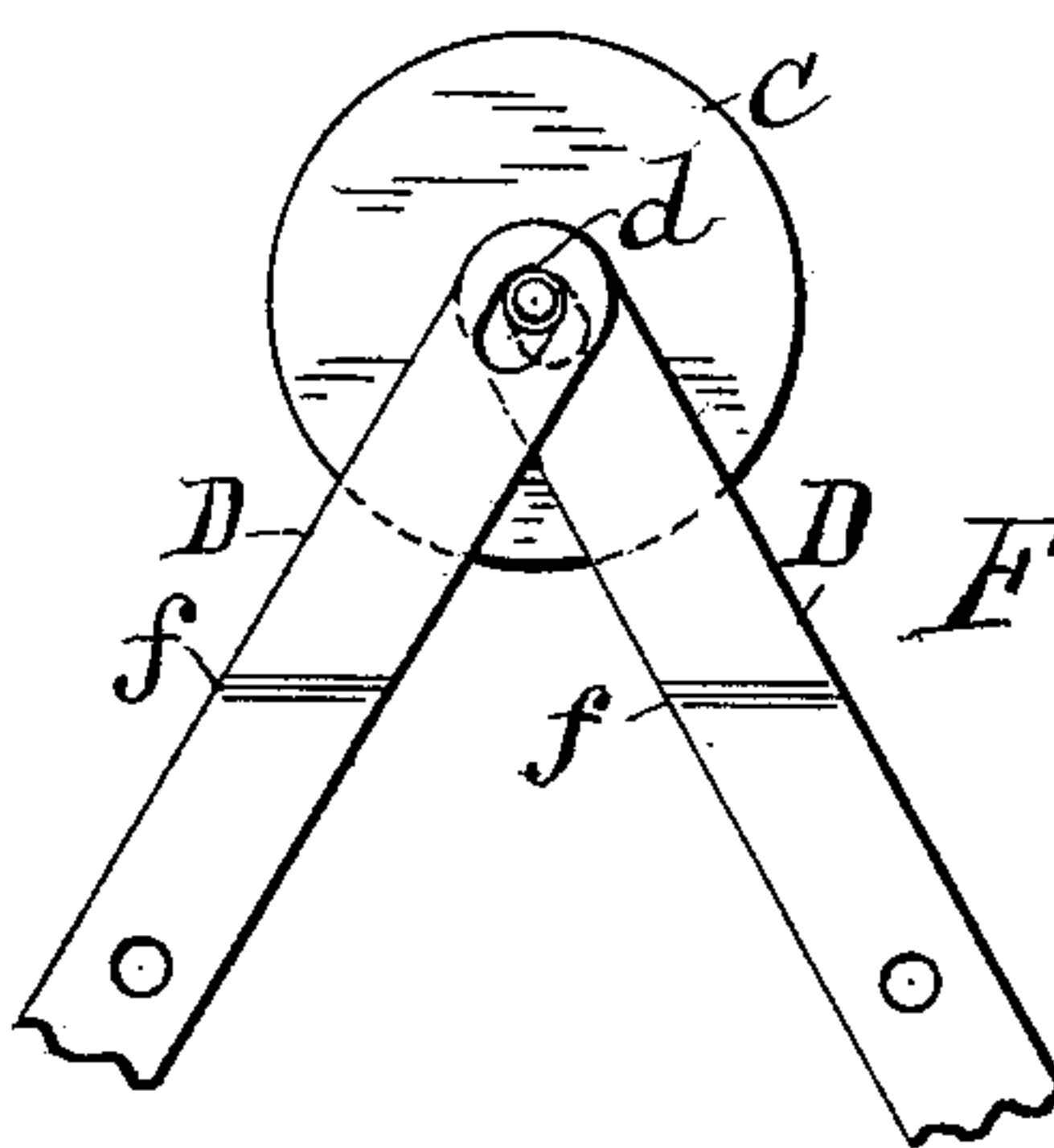


Fig. 3.

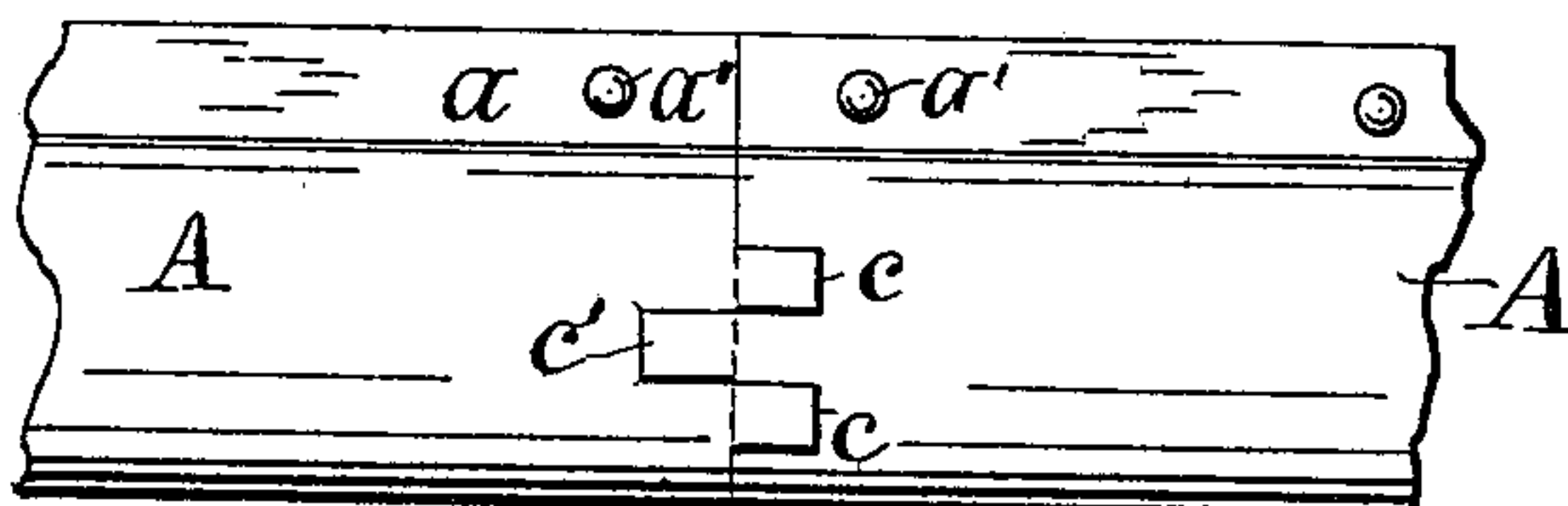


Fig. 4.

Witnesses.

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DOOR HANGER AND TRACK.

SPECIFICATION forming part of Letters Patent No. 630,733, dated August 8, 1899.

Application filed December 16, 1898. Serial No. 699,469. (No model.)

To all whom it may concern:

Be it known that I, ROMAINE OLIVER, of Scipio, in the county of Cayuga, in the State of New York, have invented new and useful
5 Improvements in Tracks and Hangers for Doors, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to tracks and hangers
10 for sliding doors; and the object of my invention is to provide a very simple, durable, and inexpensive track and hanger that will be applicable to all sliding doors, and particularly to barn-doors.

15 To this end my invention consists in the combination, with a longitudinally-divided cylindrical track having longitudinally and vertically extended flanges, of a pair of hemispherical rollers within the same and separated from each other, a spindle connecting
20 the rollers together, and a pair of strips extending from the spindle to the door, said strips passing between the parts of the track on its lower side; and my invention consists
25 in certain other combinations of parts hereinafter described, and specifically set forth in the claims.

In the drawings hereto annexed and forming a part of this specification, Figure 1 is a
30 side elevation of my improved track and door-hanger. Fig. 2 is an end elevation of the same in connection with the front of the barn and the door, which are shown in section. Fig. 3 shows a side elevation of the hanger
35 with one of the rollers removed and the lower ends of the strips broken away, and Fig. 4 shows my preferred form of joint between sections of the track.

Referring specifically to the drawings, A
40 is the cylindrical track, divided longitudinally, centrally, and vertically into two parts.

a a are flanges on the upper edges extending outward and vertically, said flanges being perforated at intervals throughout their
45 length. Some of the perforations are to receive rivets or bolts a', if desired, to secure the parts of the track together and some to receive the hooks B, secured to the side of the barn and projecting over the track.

50 b b are flanges turned inward and extending vertically throughout the length of the

track to prevent the parts of the same from spreading or separating too far.

The track is preferably formed of sheet-iron or other metal, and when divided into sec- 55
tions may be coupled together in the manner and by the means shown in Fig. 4, in which figure are shown tongues c and c' on the ends of the sections in contact with each other and overlapping the sections. The tongue c' on
60 the right-hand section overlaps the left-hand section, and the tongues c c overlap the right-hand section, as clearly shown. This retains the sections in alinement.

C C are the hemispherical rollers, which 65
are made of wood or metal and which are inclosed by the track and roll upon the inner lower side thereof. A spindle d passes horizontally and through the centers of these rollers, the central portion of the spindle being larger than the end portions to hold the
70 rollers apart the proper distance. The ends of the spindle are riveted to retain the rollers.

A pair of metal strips D D are pivoted at their upper ends upon the spindle between 75
the rollers and pass downwardly between the flanges b b and parts of the track and diverge, their lower ends being secured to the front of the door E by screws or bolts e e. In order to secure the lower ends of the strips D D to the
80 side of the door when the latter is of considerable thickness, an offset f is bent in each strip above the upper edge of the door.

To allow for any unevenness of the track, the holes in the upper ends of the strip D 85
through which the spindle d passes are slots, as clearly shown in Fig. 3 of the drawings.

The weight of the door and the shape of the rollers tend to hold the parts of the track separated, so that there is no friction between 90
the flanges b b and the strips D.

The rivets or bolts may be dispensed with, if desired, and the hooks B relied upon to secure the upper flanges of the track together. It will be noticed that this form of track is 95
flexible and yielding and that it may be swung outward and easily removed from the hooks after the door is removed from the hangers. Further than this, the track allows of the easy and noiseless operation of the 100
door and hangers.

Having described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. The combination with a sliding door, of a longitudinally-divided cylindrical track having longitudinally and vertically extended flanges *a* and *b* on the edges of the parts, the flanges, *a*, being perforated, hooks passing through the perforations and supporting the track, a pair of hemispherical rollers within the track, and separated from each other, a spindle passing through the centers of the rollers, and a strip connecting the spindle with the door, substantially as described and shown.
2. The combination with a sliding door, of a longitudinally-divided cylindrical track having longitudinally and vertically extended flanges on the edges of the parts, a pair of hemispherical rollers within the track and separated from each other, a spindle passing through the centers of the rollers, and a pair of strips mounted upon the spindle, passing between the lower flanges, diverging and se-

cured by their lower ends to the door, substantially as described and shown.

3. The combination with a sliding door, of a longitudinally and centrally divided cylindrical track having vertical flanges on its upper and lower edges, hooks passing through and supporting the upper flanges, the lower flanges being extended inward and separated, a pair of hemispherical rollers within the track and bearing upon the lower inner side thereof, a spindle passing through the rollers and provided with means to hold them separated, a pair of slotted strips suspended from said spindle and passing between the lower flanges and secured by their lower ends to the door, said strips having offsets therein, substantially as and for the purpose described.

In testimony whereof I have hereunto signed my name.

ROMAINE OLIVER. [L. S.]

Witnesses:

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