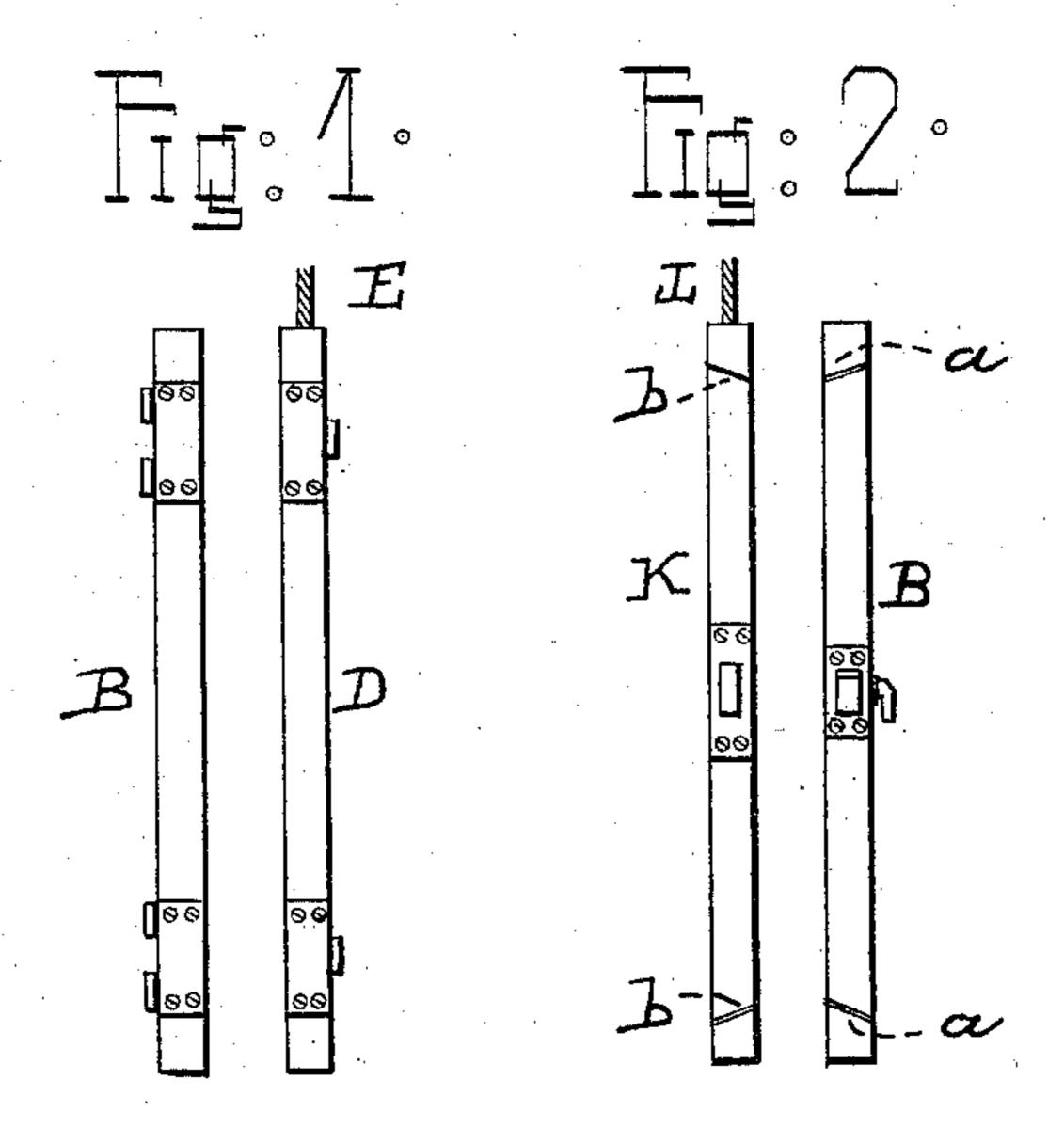
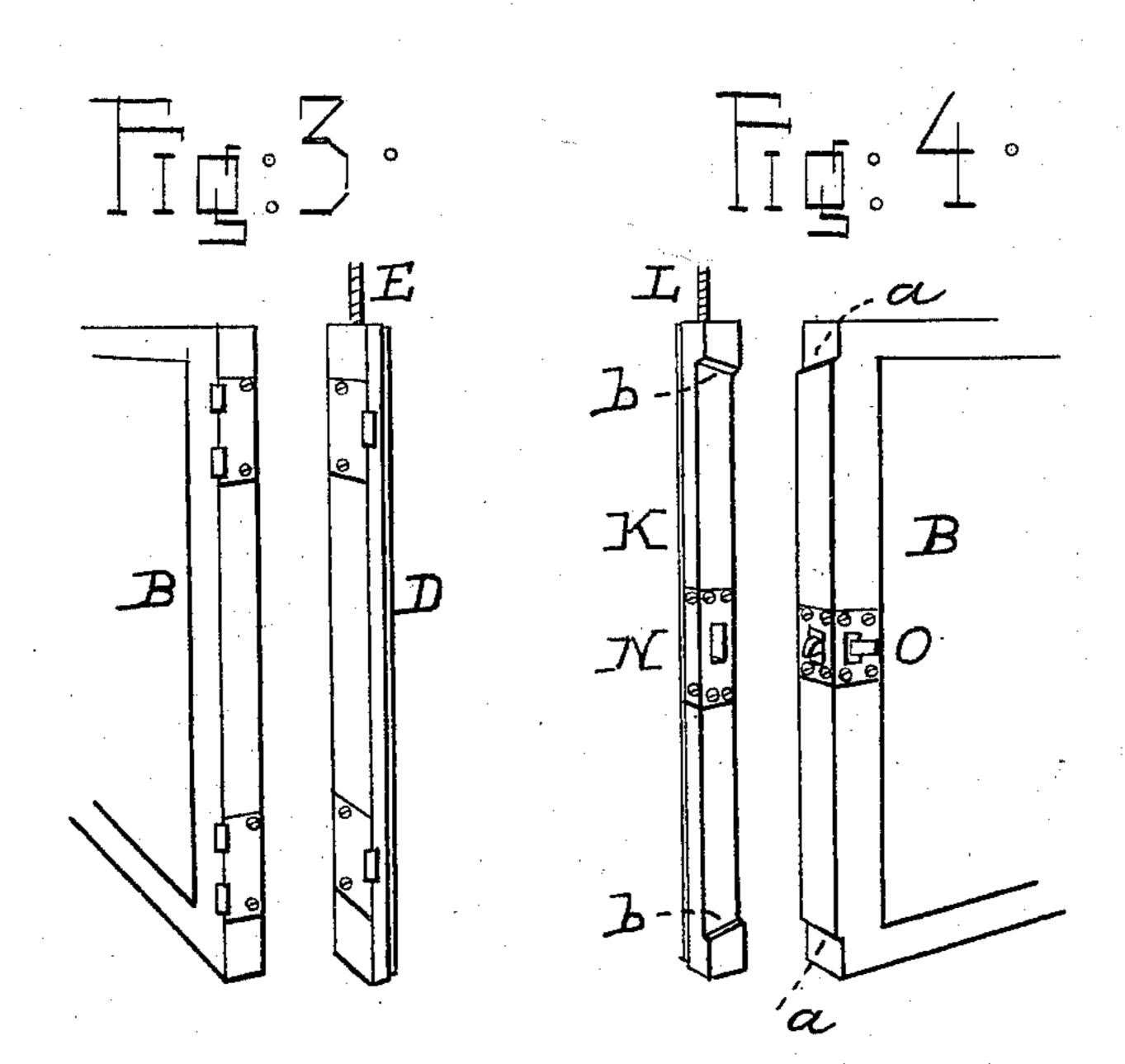
A. RUMAN. WINDOW SASH.

No. 598,644.

Patented Feb. 8, 1898.





E. Jas. Belknap.

Aurél Ruman,

BY

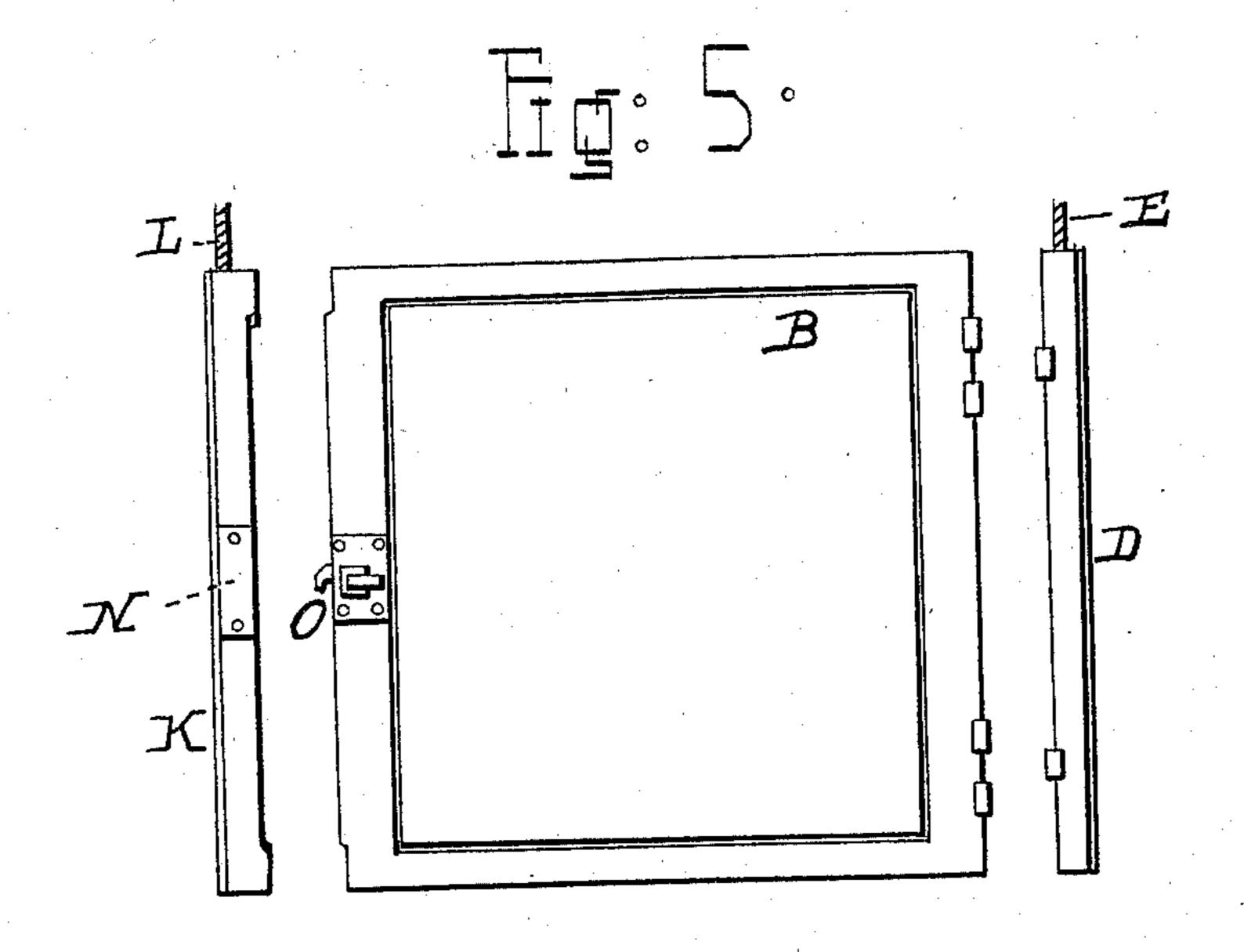
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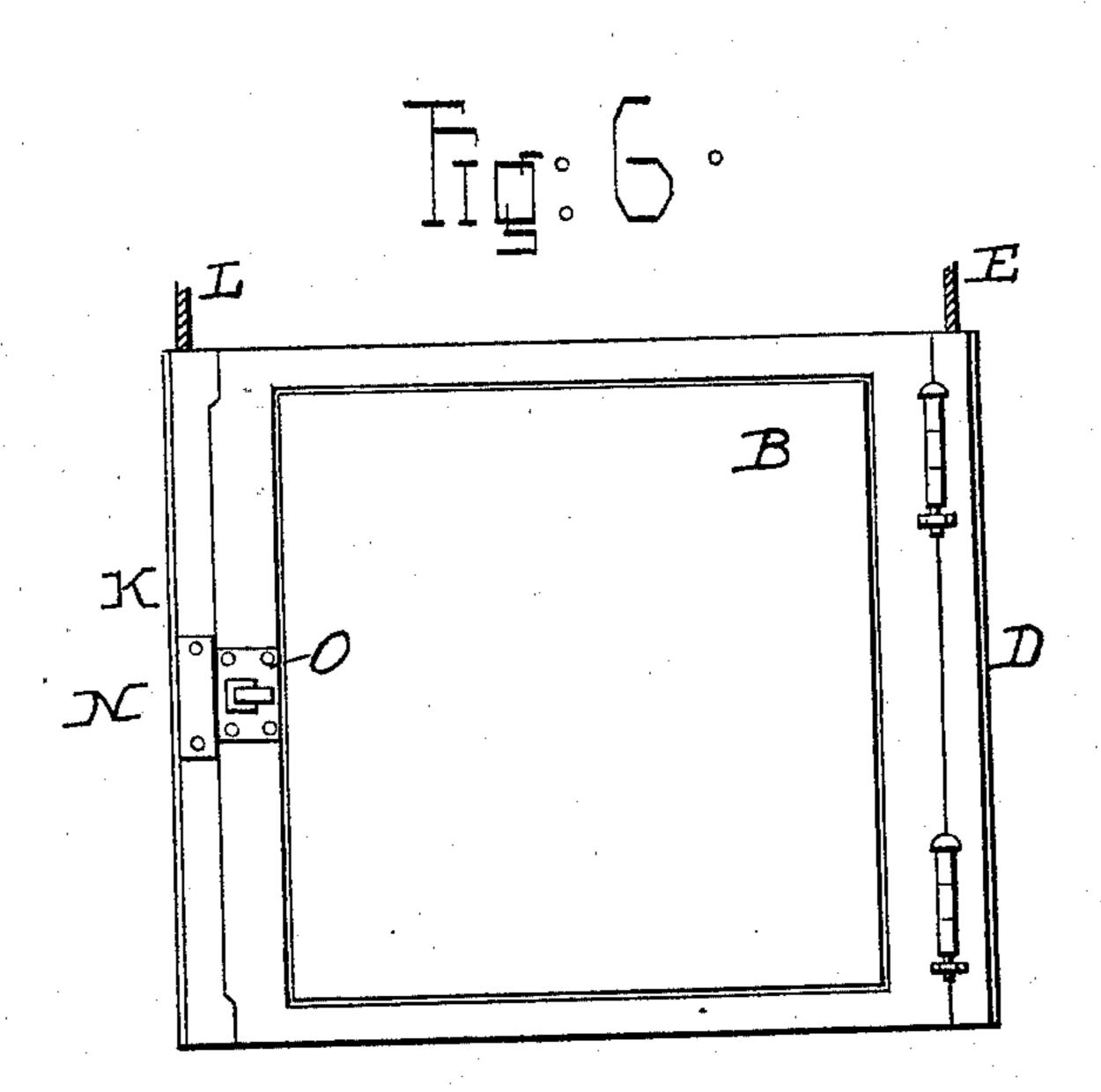
ATTORNEY.

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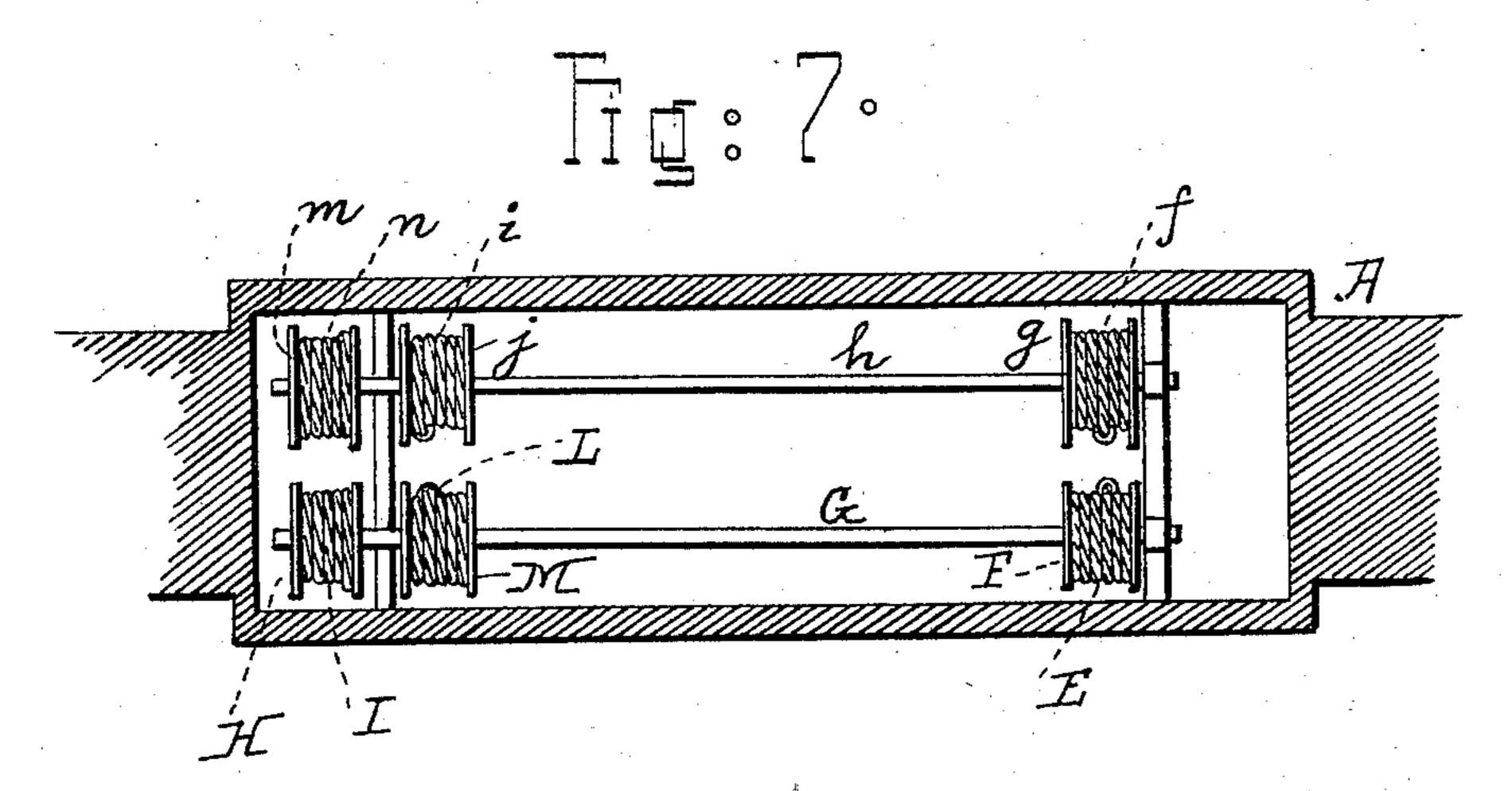
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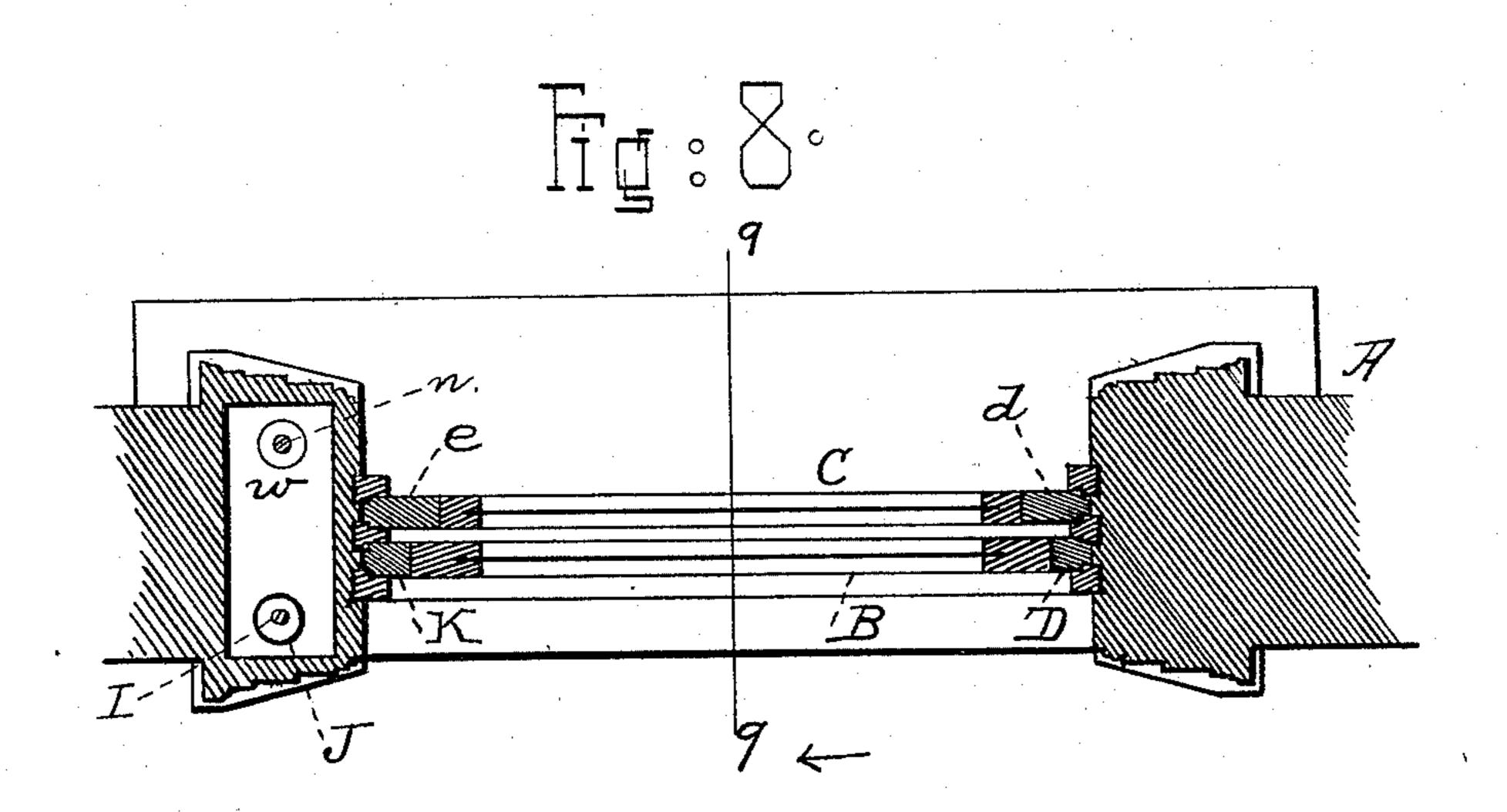
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(No Model.)

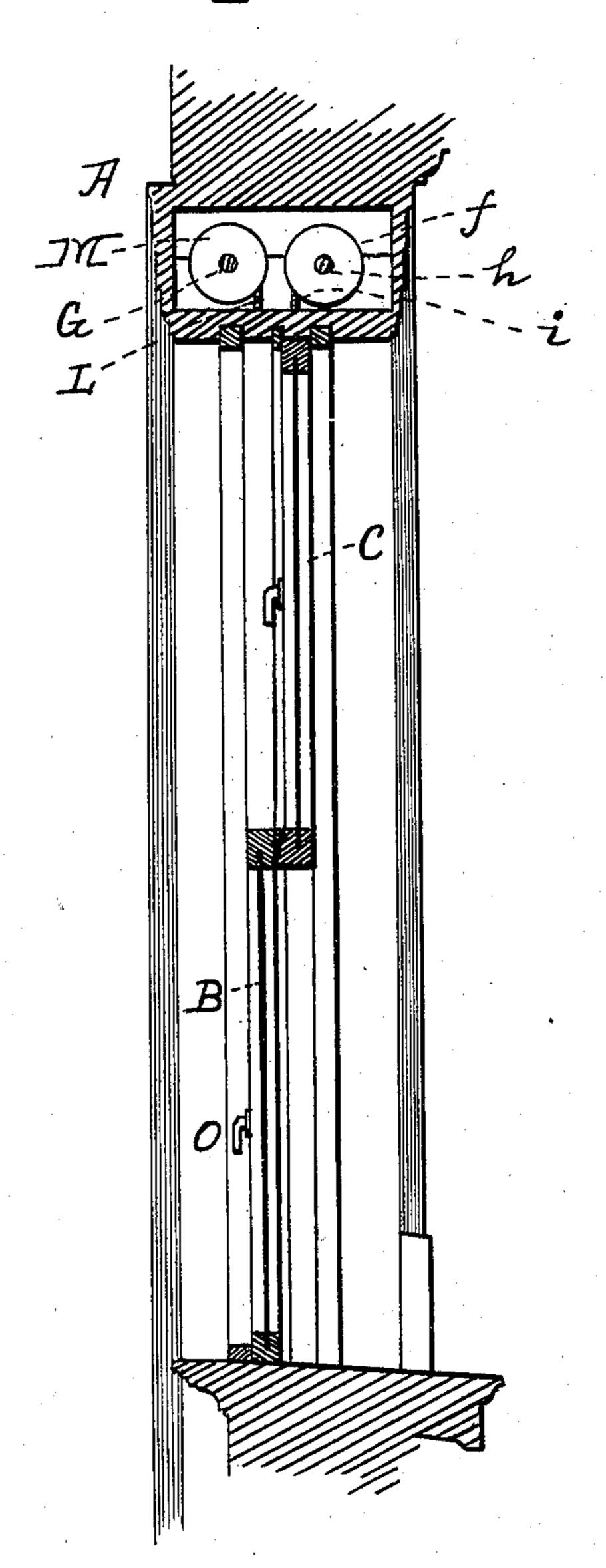
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A. RUMAN. WINDOW SASH.

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Fig. 9 °



WITNESSES:

E Jos Belknaf.

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(No Model.)

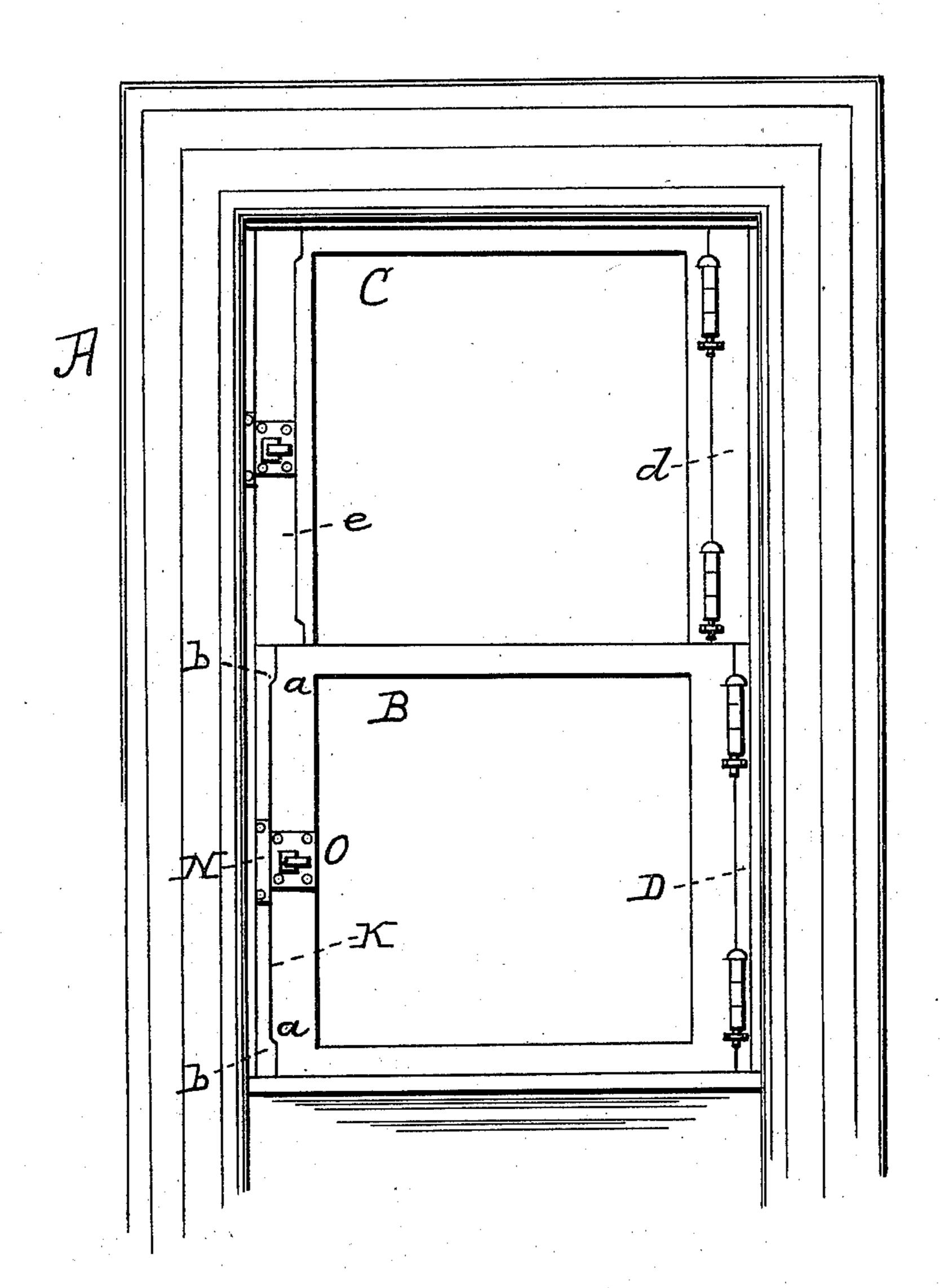
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Fig. 10°



WITNESSES:

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United States Patent Office.

AURÉL RUMAN, OF NEW YORK, N. Y.

WINDOW-SASH.

SPECIFICATION forming part of Letters Patent No. 598,644, dated February 8, 1898.

Application filed September 7, 1897. Serial No. 650,773. (No model.)

To all whom it may concern:

Be it known that I, Aurél Ruman, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Window-Sashes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to improvements in window-sashes; and it consists in the novel features of construction and combinations of parts hereinafter described, and particularly

pointed out in the claims.

20 In accordance with my invention the window-sash, at one vertical side edge, is provided with a latch and at the other vertical side edge is hinged to a strip which is connected with the cord and weight and is adapt-25 ed to slide vertically and carry with it the sash. At the side of the window-frame opposite to said strip carrying the hinged sash is provided a vertical strip having a keeper to engage the said latch, and which strip is 30 connected with a cord and weight and is adapted to be moved vertically with the windowsash. The window-sash thus has at each vertical edge a strip, to one of which strips it is hinged and to the other of which strips it may 35 be secured by said latch, and said strips are connected with weights and move with the window-sash. The window-sash may be raised and lowered at will and also either opened on its hinges or latched in closed po-40 sition.

The invention will be fully understood from the detailed description hereinafter presented, reference being had to the accompanying

drawings, in which—

Figure 1 is an edge view of the sash and an edge view of the strip to which it is to be hinged. Fig. 2 is an edge view of the sash and a like view of the strip to which it is to be latched. Fig. 3 is a perspective view, partly broken away, of the sash and the strip to which it is to be hinged. Fig. 4 is a like view of the sash and the strip to which it is

to be latched. Fig. 5 is a front elevation of the sash and edge strips separted from one another. Fig. 6 is a like view of same, show-55 ing the parts connected. Fig. 7 is a horizon-tal section through the top of a window-casing and showing the pulleys and cords for the two window-sashes. Fig. 8 is a like section through the casing and window-sashes. 60 Fig. 9 is a central vertical section of the window casing and sashes on the dotted line 9 9 of Fig. 8, and Fig. 10 is a front elevation of the window casing and sashes.

In the drawings, A denotes the window-cas- 65 ing, B the lower window-sash, and C the up-

per window-sash.

The sashes B C correspond with one another, and hence the lower sash only will be

particularly described.

The sash B is a rectangular frame holding the usual pane of glass and is hinged at one edge to the vertical strip D, which corresponds in height with the sash B and is adapted to move vertically with the sash in the usual 75 groove or guide present in window-casings. The strip D is connected with the cord or rope E, which passes upward around and is connected to the drum F, secured on the shaft G, which has at its left-hand end the drum H, 80 carrying the cord or rope I, to which the weight J is secured. The weight J upon the raising of the sash B will turn the shaft G to wind the cord E upon the drum F and unwind the cord I from the drum H, and upon 85 the lowering of the sash B the shaft G will receive a reverse rotation, unwinding the cord E from the drum F and winding the cord I upon the drum H.

At the edge of the sash B, opposite to the 90 strip D, is the strip K, which corresponds in height with the sash B and strip D and is connected by the cord or rope L with the drum M on the shaft G in order that said strip K may ascend and descend with the sash B and at all 95 times preserve its due relation to said sash. The strip K will move in the usual groove or guide present in window-casings and is provided with the keeper N, of any known form, to receive the latch O, secured to the sash B 100 in proper relation to said keeper. The purpose of the latch O and keeper N is to lock the sash B in its closed position, when desired,

at whatever elevation the sash may be moved

open on its hinges whenever desired. The edge of the sash B adjacent to the strip K is provided with the shoulders a to engage the shoulders b of said strip K, and thereby assist said strip in its vertical movements and in preserving its due relation to said sash.

In the employment of the invention the sash B and strips D K all move together during the raising and lowering of the sash, and the latter at any elevation may be either locked in its closed position or swung open upon its

hinges.

The upper sash C in structure, equipment, 15 and operation substantially corresponds with the sash B, said sash C being hinged to the strip d and adapted to be latched to the strip e. The strip d is connected by a cord f with the drum g, secured on the shaft h, and the 20 strip e is connected by the cord i with the drum j, also secured on said shaft h. Upon the left-hand end of the shaft h is the drum m, receiving the cord n, to which the weight w for the upper sash C is secured. The sashes 25 BC, constructed, equipped, and operating as described, are desirable in that the sashes may be turned into the room to be cleansed and may also be manipulated to regulate the passage of air into and from the room at will.

What I claim as my invention, and desire 30 to secure by Letters Patent, is—

1. In combination with the window-casing, the vertically-movable window-sash, the strip D to which said sash at one edge is hinged, the vertically-movable strip K at the other edge 35 of said sash, the latch for fastening the sash to said strip K, and the weighted cords connected with said strips D, K, said sash having the shoulders a and said strip K having the shoulders b to engage said shoulders a; 40 substantially as and for the purposes set forth.

2. In combination with the window-casing, the vertically-movable window-sash, the strip D to which said sash at one edge is hinged, the vertically-movable strip K at the other edge 45 of said sash, the latch for fastening the sash to said strip K, the shaft G, the drums F, M, on said shaft, the cords E, L, connecting said drums with said strips D, K, the drum H also on said shaft, and the cord and weight 50 connected with said drum H; substantially as set forth.

In testimony whereof I affix my signature

in presence of two witnesses.

AURÉL RUMAN.

Witnesses:

CHARLES C. GILL, E. Jos. Belknap.