

No. 680,710.

Patented Aug. 20, 1901.

H. HARIG.
SASH PULLEY FRAME.
(Application filed Aug. 7, 1900.)

(No Model.)

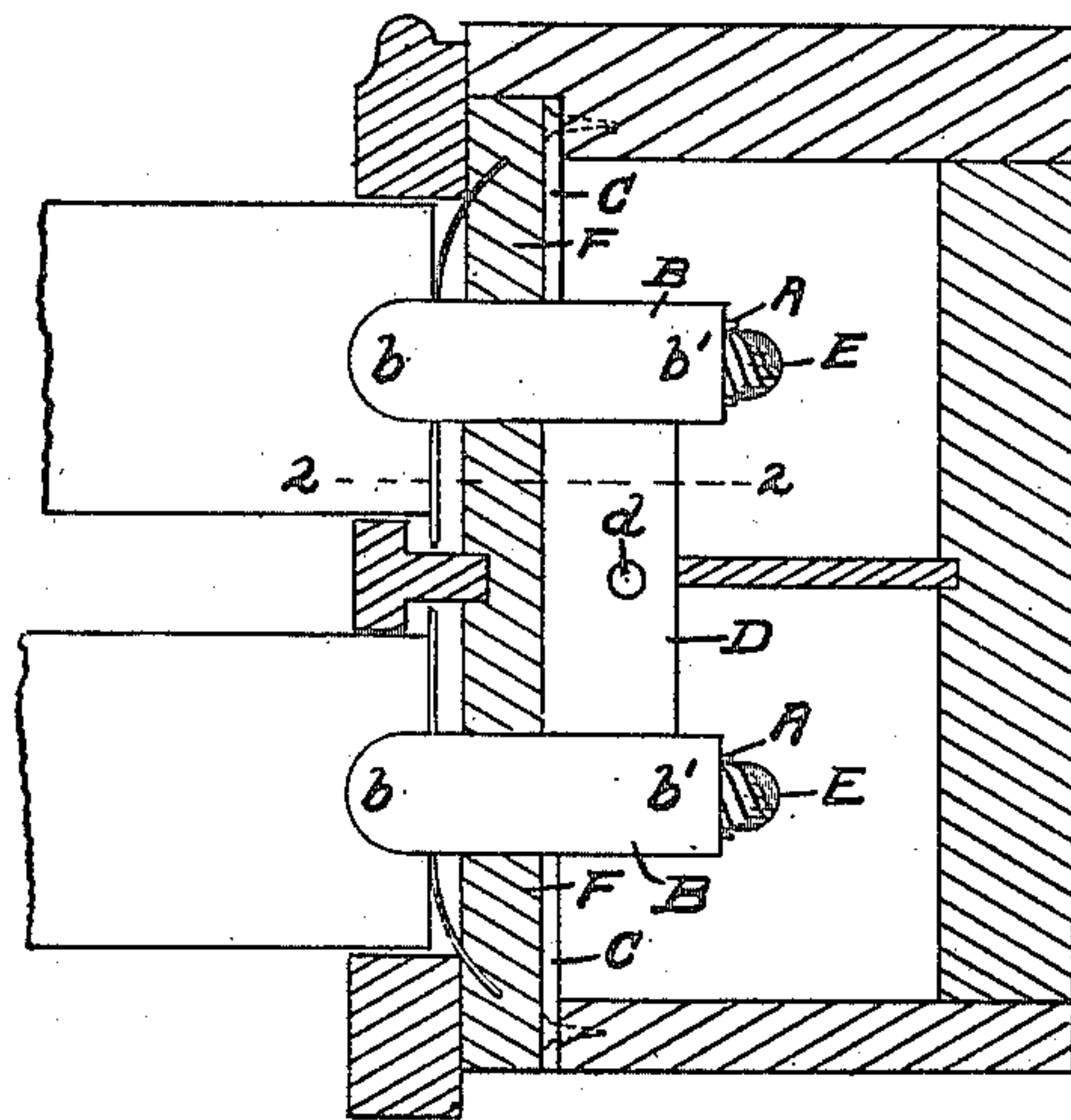


FIG. 1.

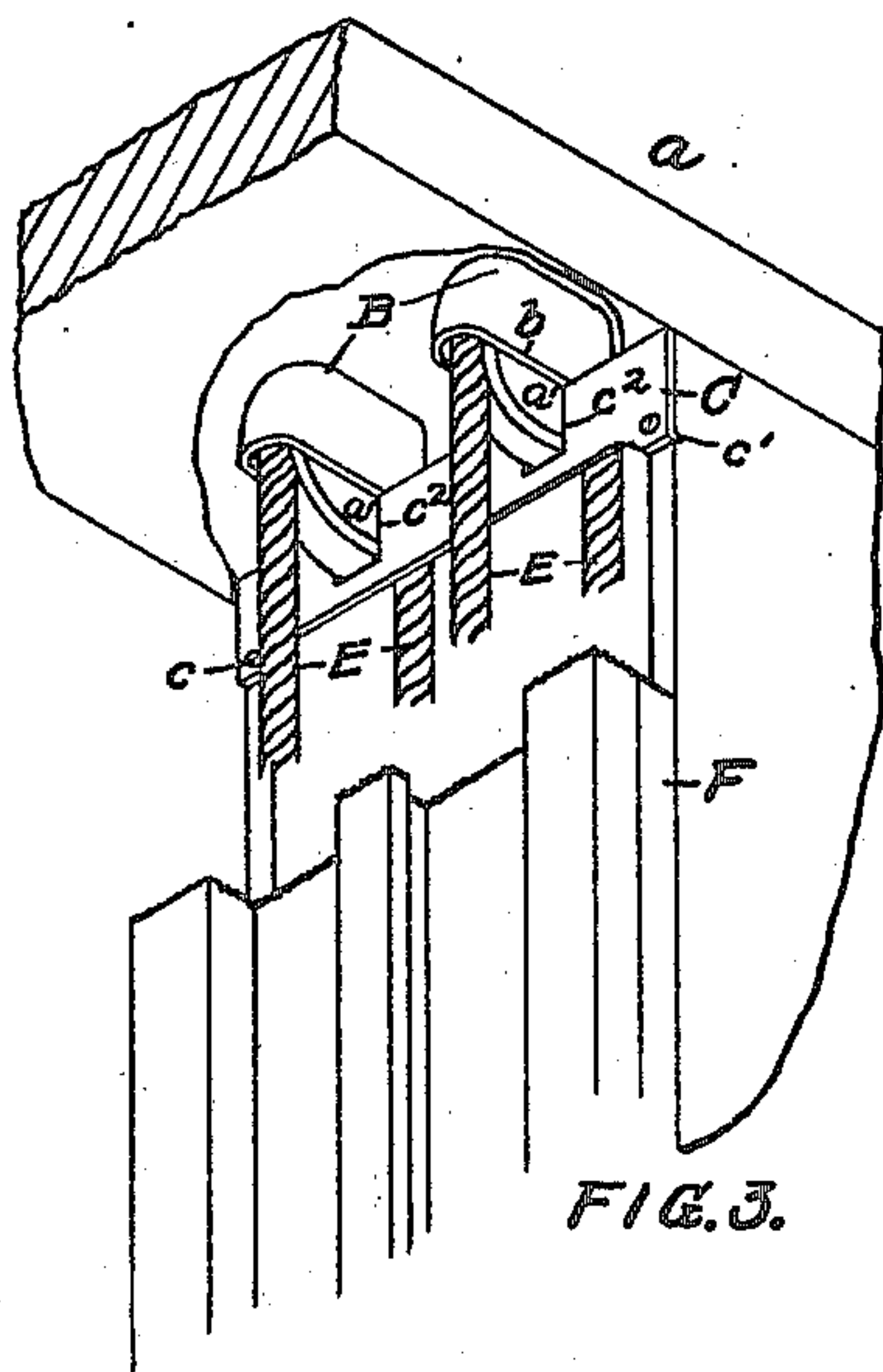


FIG. 3.

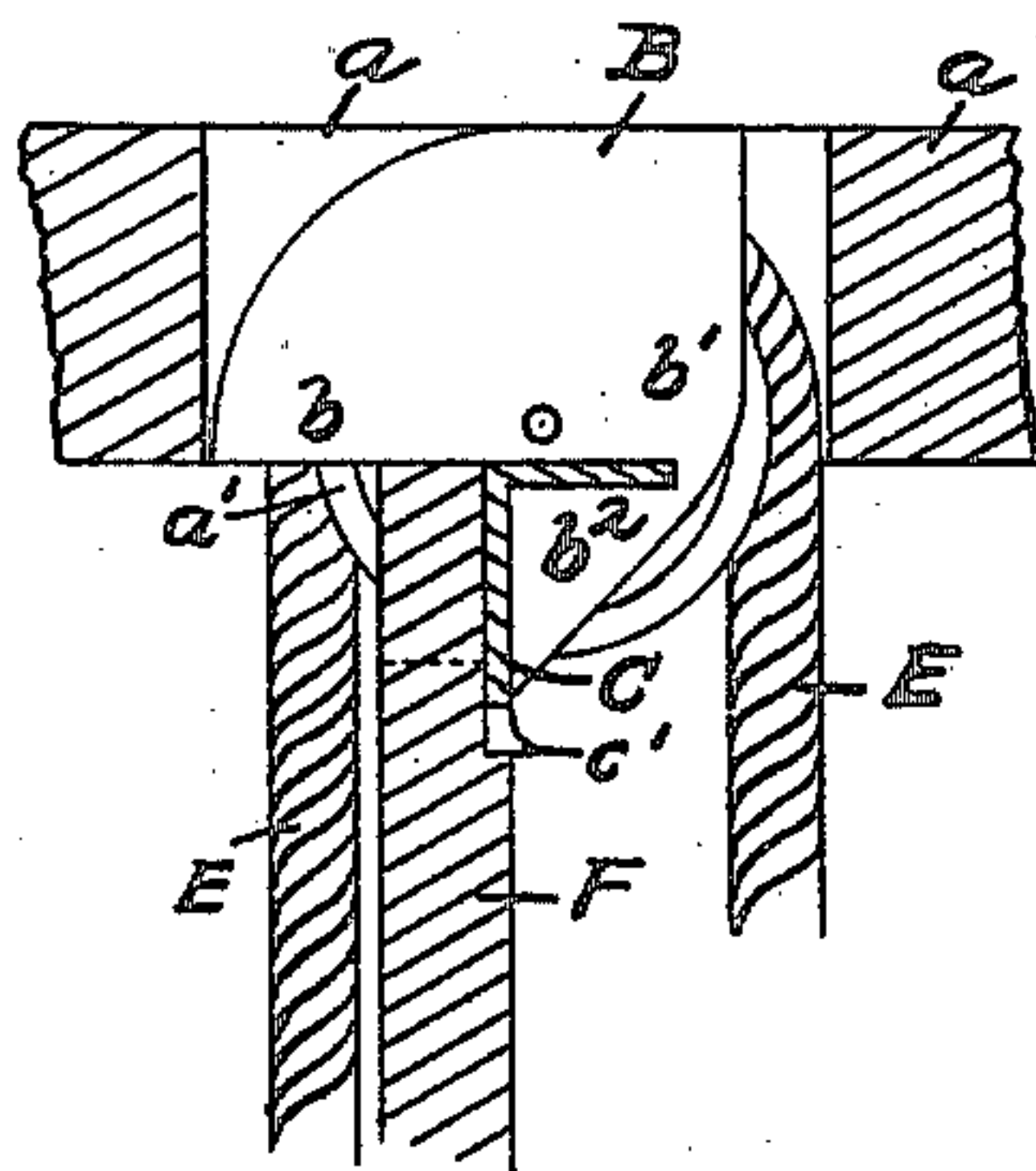


FIG. 2.

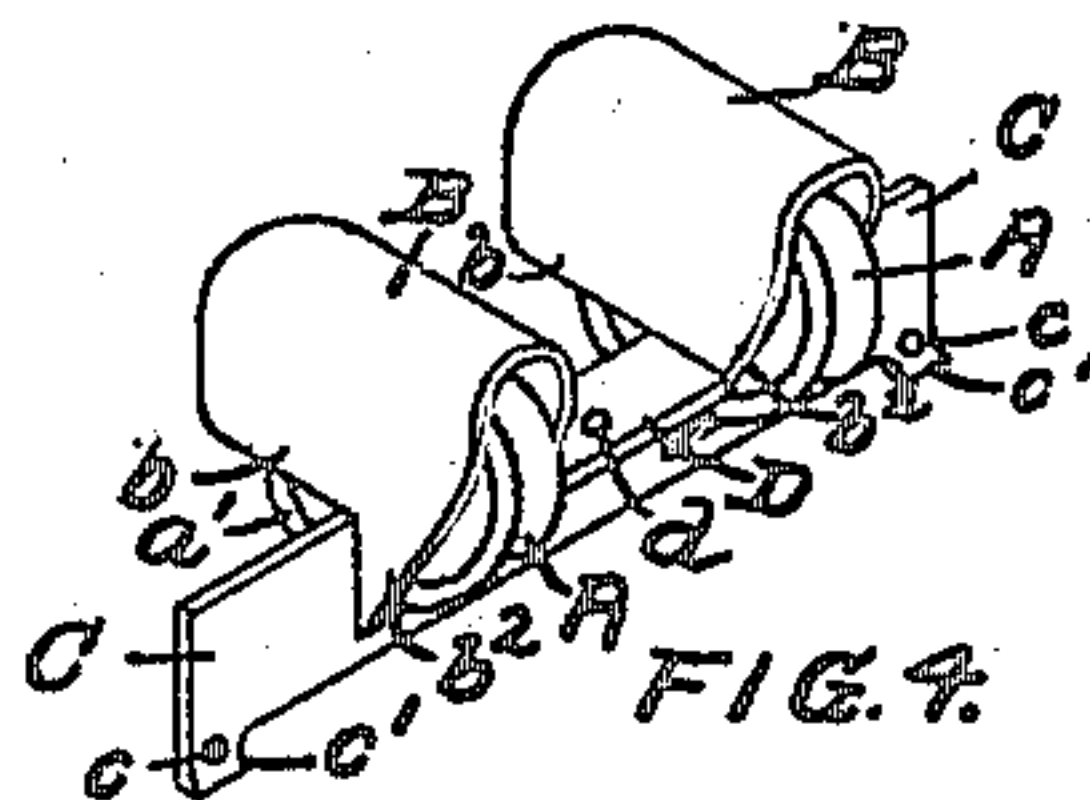


FIG. 4.

Witnesses
Brayton S. Richards
James S. Richards

Inventor
Henry Harig
By Attorney *Arthur F. George*

UNITED STATES PATENT OFFICE.

HENRY HARIG, OF CINCINNATI, OHIO.

SASH-PULLEY FRAME.

SPECIFICATION forming part of Letters Patent No. 680,710, dated August 20, 1901.

Application filed August 7, 1900. Serial No. 26,185. (No model.)

To all whom it may concern:

Be it known that I, HENRY HARIG, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio,

5 have invented certain new and useful Improvements in Sash-Pulley Frames for Windows, of which the following is a specification.

The object of my invention is to provide a sash-pulley frame for windows which may be

10 readily secured in position so as to permit access to the parts; and my invention consists in the combinations and arrangements of parts hereinafter set forth and claimed.

In the drawings, Figure 1 is a top plan view, partially in section, of a pulley-frame embodying my invention mounted in a window-frame; Fig. 2, a section on line 2 2 of Fig. 1; Fig. 3, a perspective view, partially in section, of the pulley-frame in position; and Fig. 4, a per-

15 spective view of the pulley-frame detached.

Reference-letter A denotes the pulleys; B, the pulley-casings; C, a vertical flange adapted to be attached to the sides of the weight-channels; D, a horizontal flange adapted to be secured to the under side of the frame-head, and E the sash-cords.

25

The pulleys A may be of any desired construction. The pulley-casings B are mounted on the vertical and horizontal flanges D and C, preferably by casting them in the form shown. The vertical flange C is provided with screw-holes *c*, through which screws may be passed into the sides of the weight-channels. In order to further secure flange C in

30 position, it is provided with projections *c'*, adapted to take into corresponding notches in the sides of the weight-channels. The horizontal flange D is provided with a screw-hole *d*, through which a screw may be passed into the headpiece of the frame. In order to stiffen and strengthen the frame, a portion of the pulley-casings B are extended over the front of flange C to form the projection *b*, which is long enough to carry the entrance-

35 opening for cord E beyond the stile F. At the rear the casings B are extended back from the vertical flange to form the portion *b'*, which is connected with flanges C and D by means of the vertical flanges *b²*, which serve

40 to further stiffen and strengthen the frame. In order to render the construction more compact, and therefore stronger and stiffer, the flange C is slotted at *c²* to permit the passage of pulleys A, so that the casings B need only

50

be high enough to accommodate a little more than half the pulleys. 55

In placing the frame in position the head-piece *a* is slotted to permit the insertion of the casings B, the upper portion of stile F is slotted to permit the passage of the portions 60 *a'* of pulley A, the sides of the weight-channels are properly notched to receive projections *c'*, and the whole secured in position by passing screws through holes *c* and *d* into the sides of the weight-channels and the head- 65 piece, respectively.

It will be seen that by the use of my frame the pulleys are given a secure and rigid mounting independent of the stile, which may readily be removed to permit access to 70 the weights or pulleys, and that the side pieces of the casing are given a firm and rigid connection with the headpiece, thus strengthening and stiffening the frame.

I claim as my invention—

1. The combination with the weight-box and stile of a window-frame of a pulley-frame having a vertical flange secured to the sides of the weight-channel, and a horizontal flange secured adjacent to the bottom of the head- 80 piece substantially as and for the purpose set forth.

2. The combination with the weight-box stile and headpiece of a window-frame, of a pulley-frame having a vertical and a horizontal 85 flange, the vertical flange being provided with means whereby it may be fastened to the edges of the sides of the weight-box in the rear of the stile, and the horizontal flange being provided with means whereby it may be 90 fastened to the under side of the headpiece of the window-frame; a pulley mounted in the pulley-frame so as to project out beyond the stile; and a slot in the headpiece adapted to receive the pulley, substantially as and for 95 the purpose set forth.

3. The combination of pulley A; casing B; vertical flange C provided with projections *c'*; horizontal flange D; flange *b²* connecting the casing B with the vertical and horizontal 100 flanges; and slot *c²* in flange C to permit the passage of pulley A, substantially as and for the purpose set forth.

HENRY HARIG.

Witnesses:

M. G. HOFFMAN,
C. C. ABBOTT.