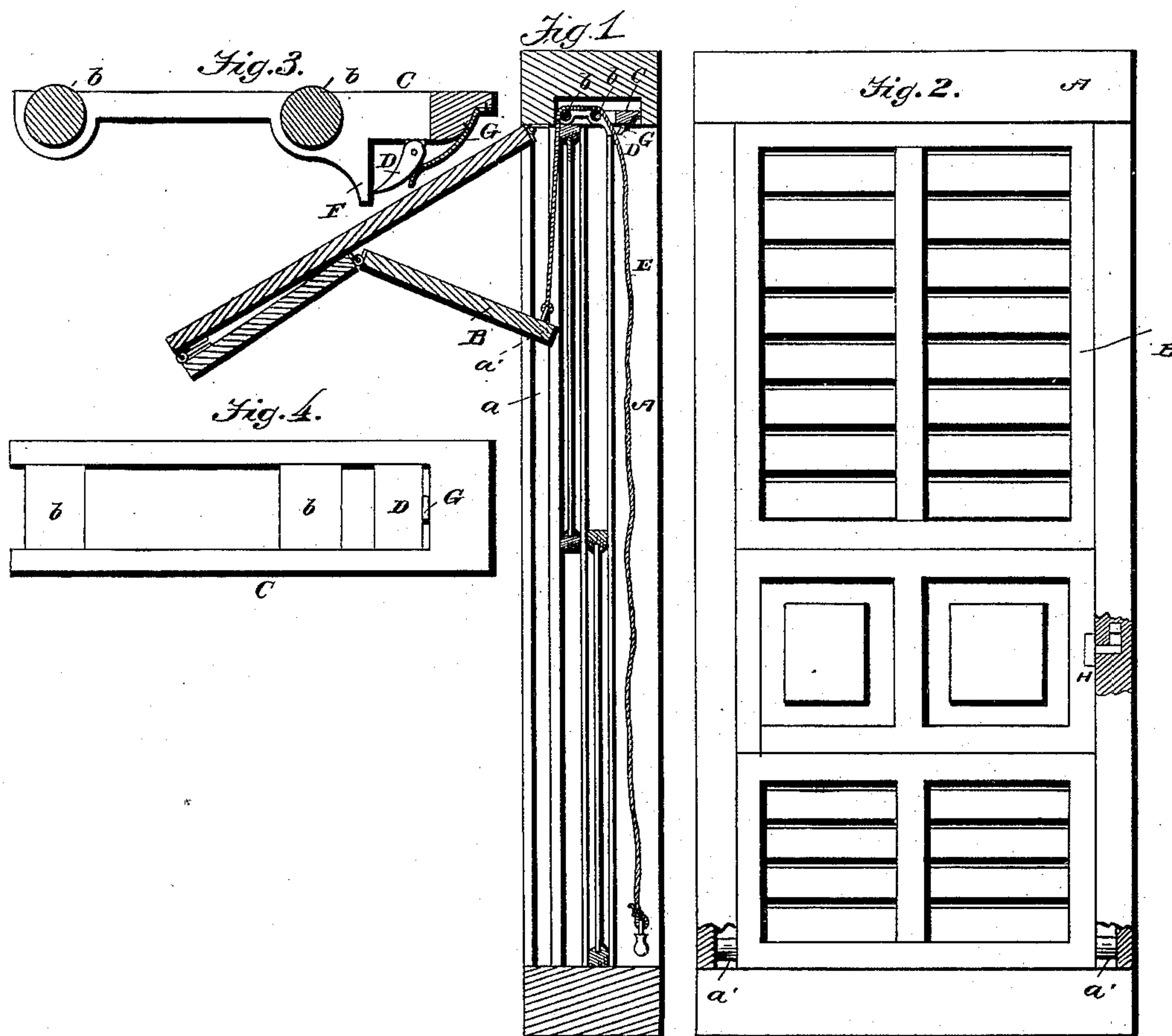


(No Model.)

S. L. & E. M. BLOOM.
SHUTTER.

No. 401,813.

Patented Apr. 23, 1889.



Witnesses:

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UNITED STATES PATENT OFFICE.

SAMUEL L. BLOOM AND EDDY M. BLOOM, OF FINDLAY, OHIO.

SHUTTER.

SPECIFICATION forming part of Letters Patent No. 401,813, dated April 23, 1889.

Application filed August 27, 1888. Serial No. 283,876. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL L. BLOOM and EDDY M. BLOOM, citizens of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Shutter - Awnings and Fastenings for the Same; and we 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 ap-
10 pertains to make and use the same.

This invention has relation to improvements in that class of window - blinds which are adapted to be converted into shades or awn-
15 ings.

The invention will be fully understood from the following description and claim, when taken in connection with the accompanying drawings, in which—

20 Figure 1 is a vertical central sectional view of a window-frame showing our improvements applied. Fig. 2 is a front view of the same with the blinds in a closed position. Fig. 3 is a sectional view of the cord-fastening de-
25 vice. Fig. 4 is a plan view of the same.

Referring by letter to the said drawings, A indicates a window-frame, such as at present in use.

B indicates the window-blind, which is com-
30 posed of a top, bottom, and intermediate section, which are respectively hinged together, so that they may fold upon each other, and the top section is hinged at its upper edge to the upper horizontal portion of the window-
35 frame. The lower section is provided at its outer lower corners with friction-rollers, which are designed to travel in and be guided by the vertical grooves or ways *a* in the window-
40 frame.

C indicates a roller-bracket, which is se-
cured to the under side of the upper hori-
zontal portion of the frame or casing, and is provided with a plurality of friction-rollers, *b*, over which passes the cord for raising the

blind in forming a shade or awning. This casting C is provided in rear of the inner roller with a pawl or dog, D, adapted to impinge upon the operating-rope E, and also against a forward abutment, F, formed on the said bracket. The pawl is backed by a spring, G, as shown, so that it may keep the said pawl always bearing against the rope. It will thus be seen that when the blinds have been closed and it is desirable to lift the same into the position of an awning it is simply necessary to grasp the rope and draw it down. This will lift the lower end of the lower blind-section, carrying its friction-rollers *a* up the ways of the frame, when the said sections will fold, as shown in Fig. 1 of the drawings, and the lower section will serve as a prop or support for the others, which are held in an inclined position.

H indicates a catch, which is arranged in a recess in one of the vertical walls of the win-
65 dow-casing, and is adapted to co-operate with a suitable fastening device carried by the intermediate section of the blind in securing the same in a closed position.

Having described our invention, what we
claim is—

The combination, with a window-casing, of the roller-brackets secured in the upper portion thereof and bearing the rollers *b b*, and having the abutment F, the pivoted pawl D, the spring G, pressing thereon, the hinged sectional blind carrying frictional rollers traveling in ways in the casing, and the operating-rope secured to the lower section of the blind and passing over the bracket into the room, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

SAMUEL L. BLOOM.
EDDY M. BLOOM.

Witnesses:

A. L. STEELE,
F. P. BLOOM.