

(No Model.)

H. BOSS.
Curtain Fixture.

No. 229,665.

Patented July 6, 1880.

Fig. 4.

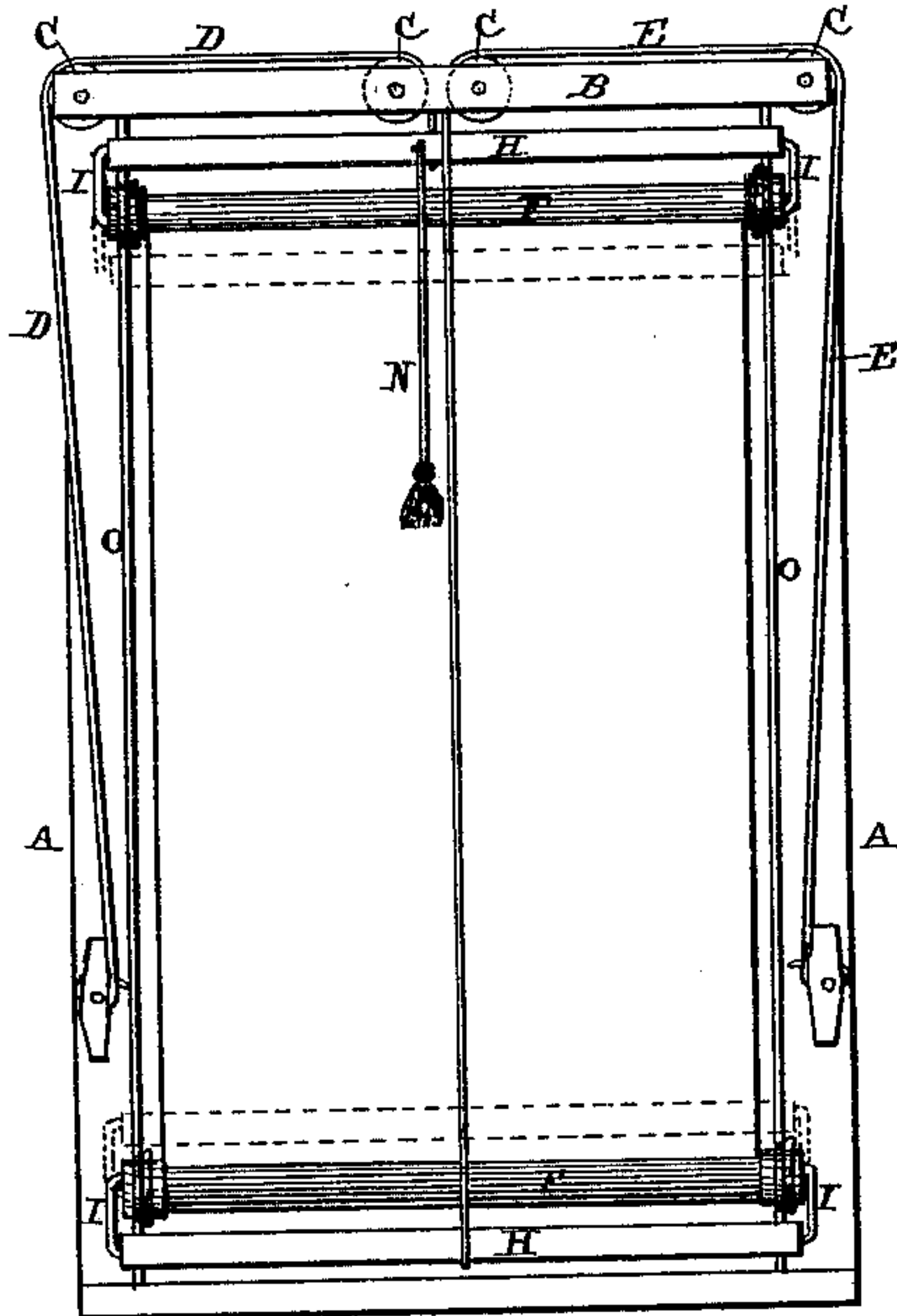


Fig. 2.

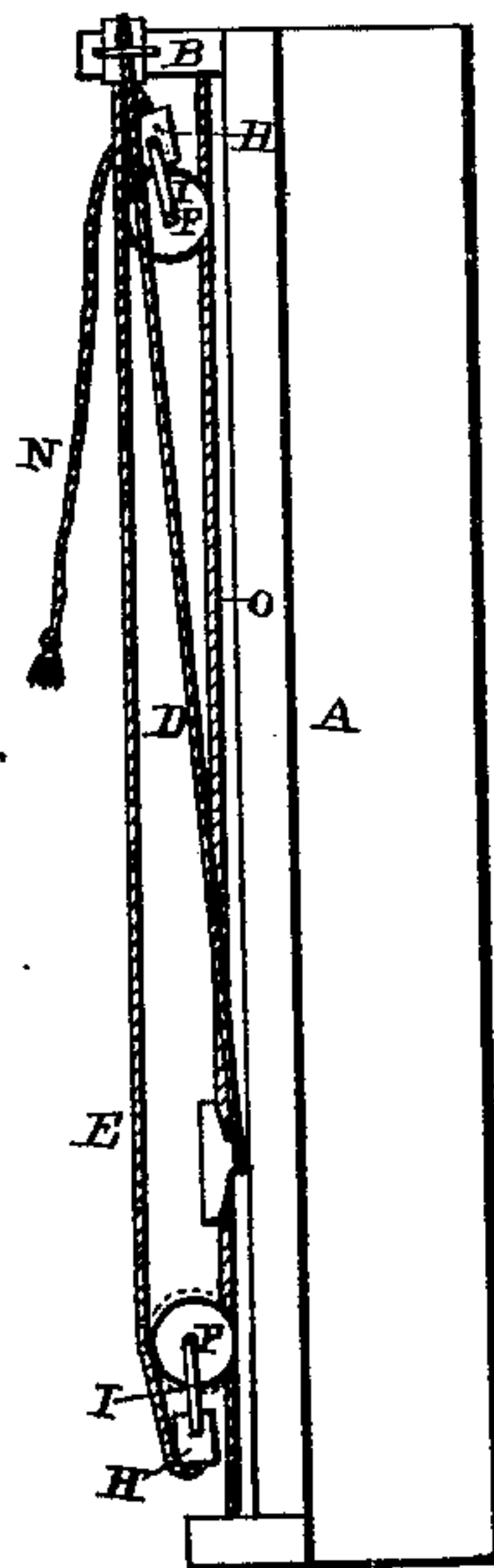
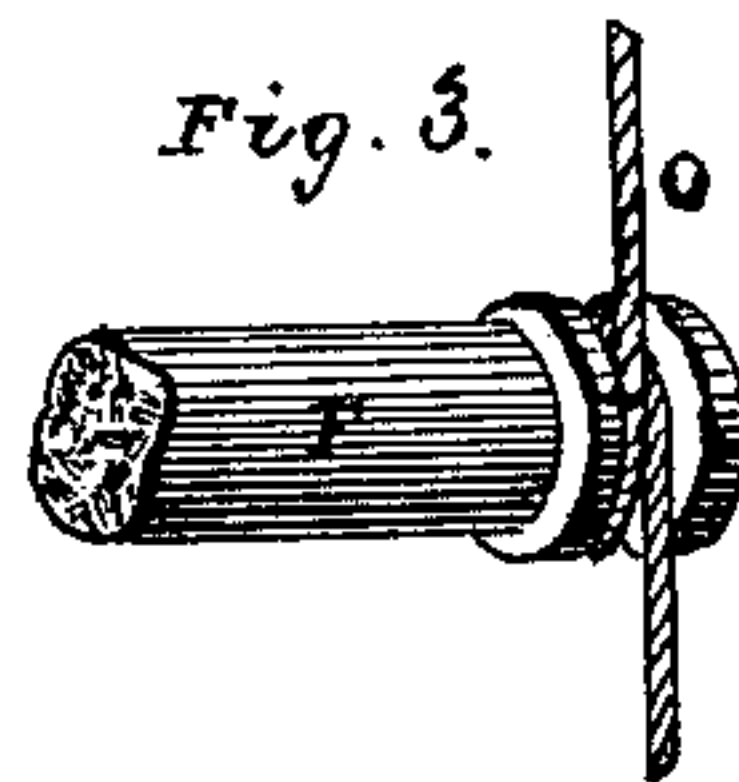


Fig. 3.



WITNESSES=

W. W. Mortimer.
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INVENTOR=
Henry Boss.
per
F. A. Lehmann,
att'y

UNITED STATES PATENT OFFICE.

HENRY BOSS, OF JOPLIN, MISSOURI, ASSIGNOR OF ONE-HALF OF HIS RIGHT
TO W. H. GERGERIE, OF SAME PLACE.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 229,665, dated July 6, 1880.

Application filed May 13, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY BOSS, of Joplin, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Curtain-Fixtures; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in curtain-fixtures; and it consists in the attachment to each roller of the curtain of a cross bar or rod, which is journaled upon the ends of the roller by a suitable bent connecting-wire, whereby the rod can turn freely from one side to the other of the roller for the purpose of allowing the roller to be pulled either up or down.

It further consists in the arrangement and combination of parts whereby the curtain can be raised and lowered from the top and bottom readily and easily, as will be more fully described hereinafter.

Figure 1 is a front elevation of my invention. Fig. 2 is an edge view of the same. Fig. 3 is a detail view.

A represents a window-frame, which has the projecting top or flange B to receive the pulleys C, over which the cords D and E pass. One of these cords is attached to the upper portion of the curtain, for the purpose of drawing the top part of the curtain up, and the other one is attached to the lower part of the curtain, for raising it at its lower end.

The roller F, upon which the curtain is wound at each end, is made much smaller than has heretofore been the case, and to each one is attached a cross rod or bar, H, by means of the bent wires I, which wires have their ends bent so as to pass into the ends of both the rods and the rollers. These rods, being thus attached to the rollers, can swing around the roller through half a circle, and thus at once accommodate themselves to the direction of the pull upon them. When either of the cords D

or E is pulled this rod rises upward over the top of the curtain, so as to allow the pull to be exerted in the most advantageous manner upon the roller. When the pull is exerted from below, either by means of the hands or a cord for this purpose, these rods sweep over from above the top of the rollers down below them, and thus prevent the necessity of the curtain ever being touched by hand or of catching hold of the rollers at the ends. Both of these rollers are guided in their movements by means of guiding and supporting cords O, which extend up the sides of the frame, and which cords are wound around the ends of the rollers in the usual manner.

To the cross bar or rod of the upper roller there is attached a suitable cord, N, by means of which the curtain can be drawn downward whenever it is desired to lower the curtain from the top, and a similar cord may be provided for the lower rod, so as to readily enable the lower end of the curtain to be reached.

I am aware that it is not new to raise and lower the rollers of the curtain by the cords on each side, nor to attach the ends of the rollers to the guiding-cords on each side of the window-frame, and this I disclaim.

Having thus described my invention, I claim—

1. In combination with the roller of a curtain, the swinging cross bar or rod H and connecting-wires I, with a cord for raising and lowering the roller in the guiding-cords O, substantially as shown and described.

2. The combination of a curtain having a roller attached to each end, the guiding-cords O, for the rollers to move upon, the swinging cross rods or bars H, and connecting-wires I, with the cords D E N, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of May, 1880.

HENRY BOSS.

Witnesses:

MARTIN HANELINE,
M. L. HARDER.