

2. Sheets. Sheet. 1.

C. R. Rand,

Sash Balance.

No. 112,278.

Patented Feb. 28. 1871.

fig. 1.

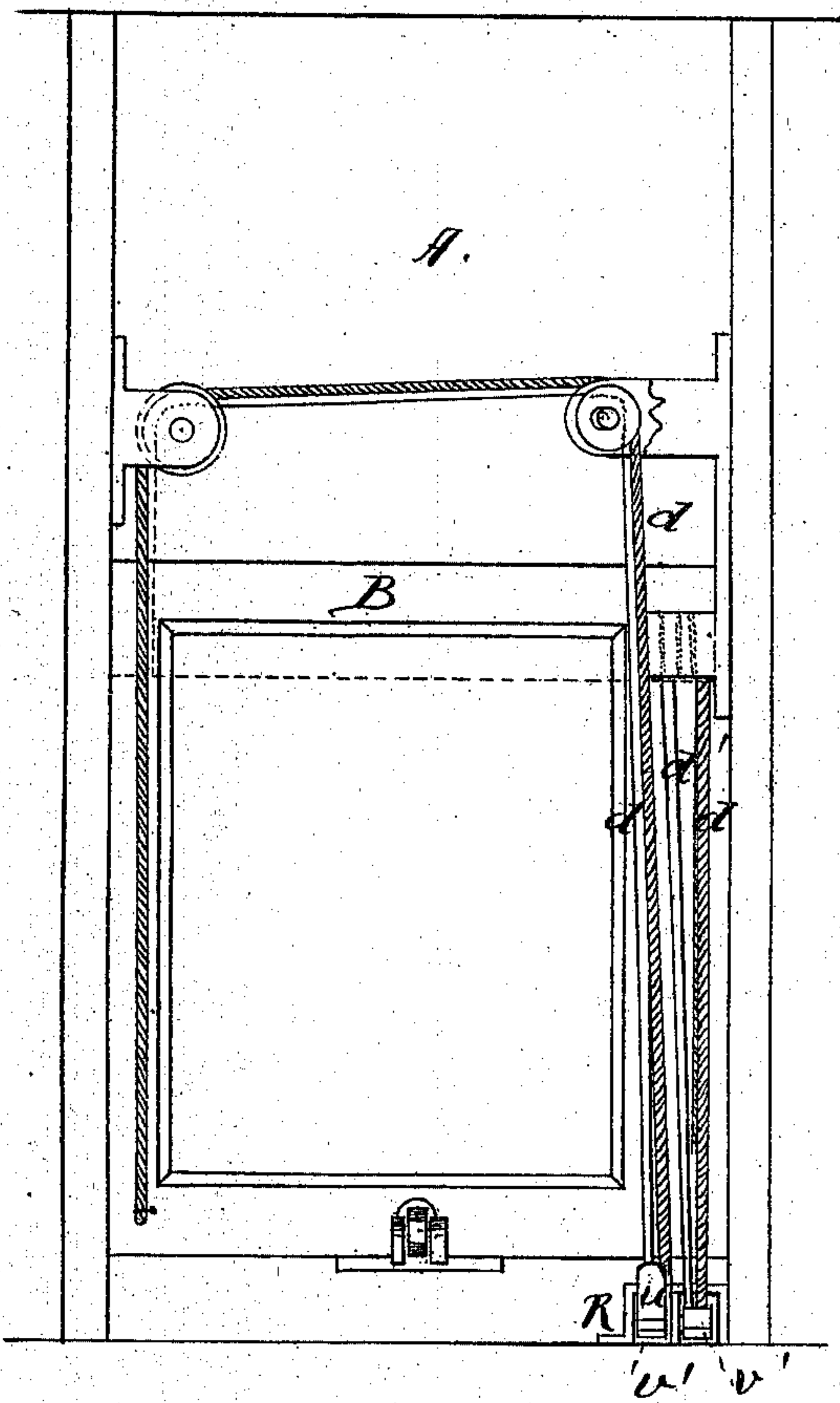
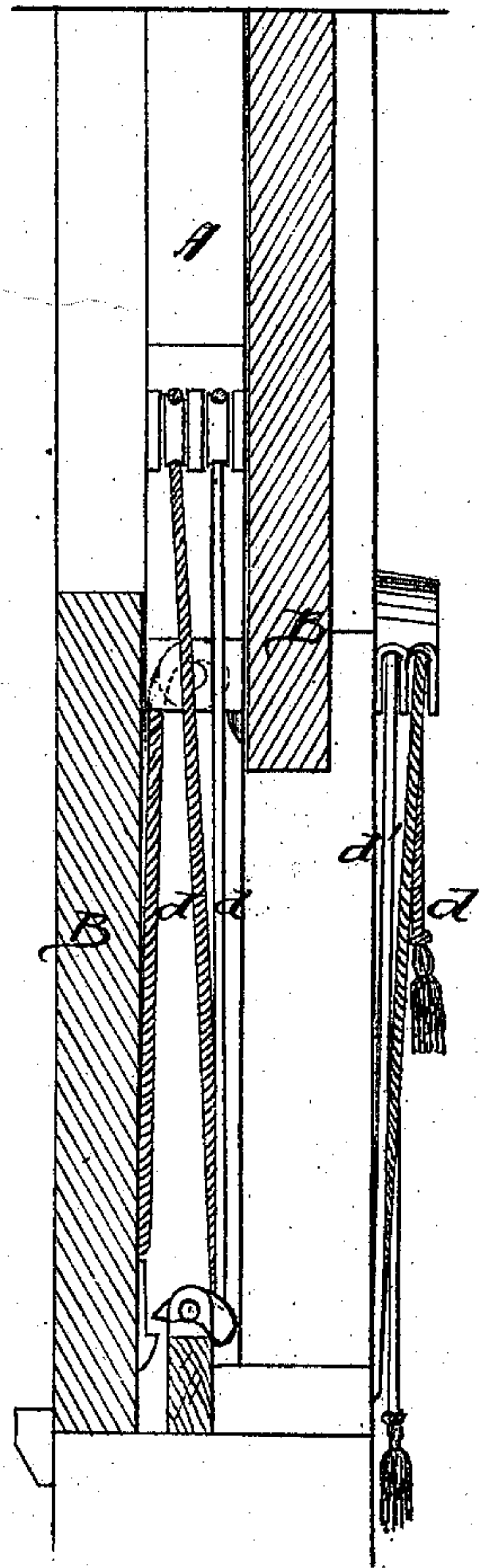


fig. 2.



Witnesses:

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Inventor

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2. Sheets, Sheet 2.

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fig. 3.

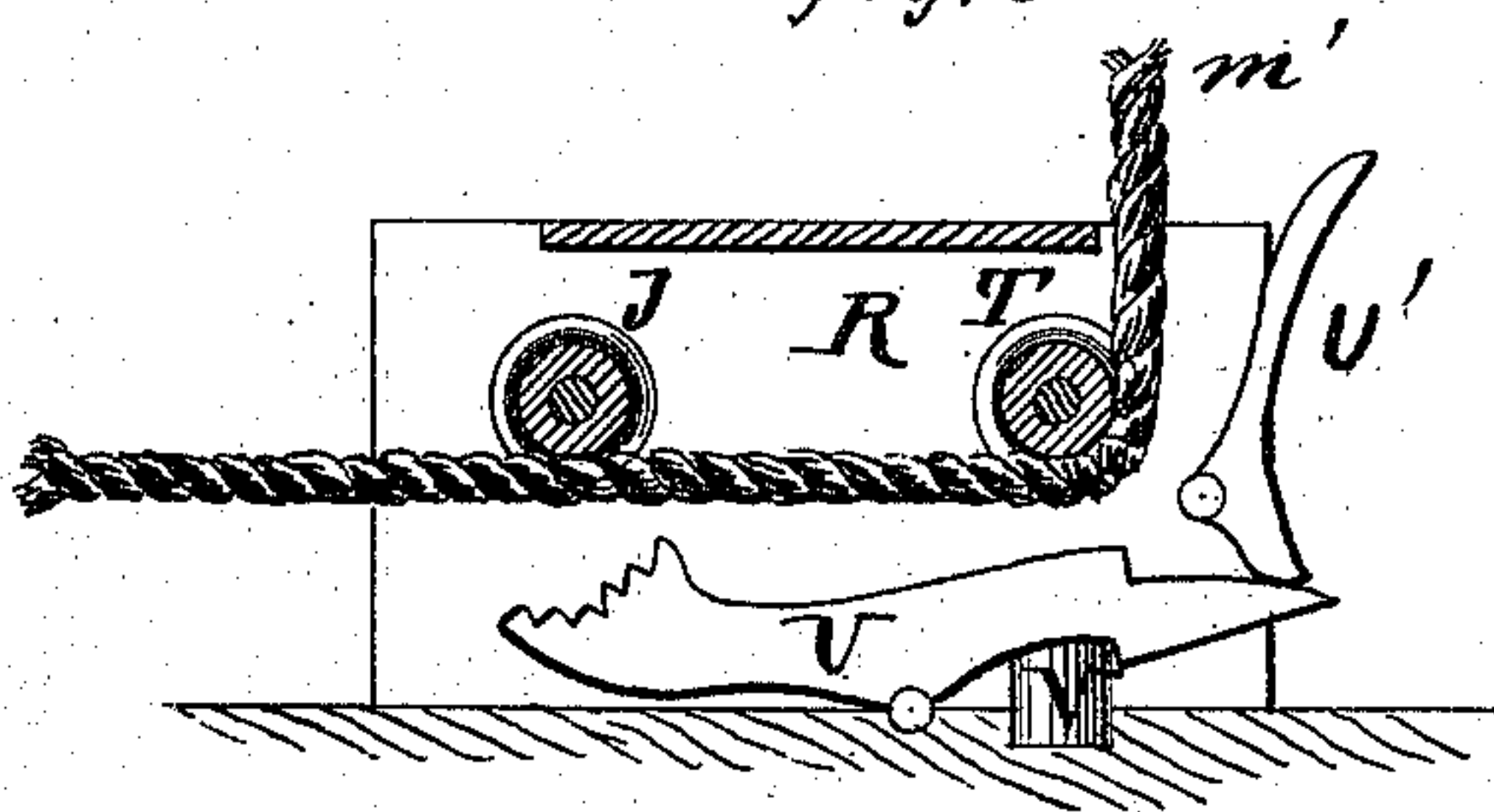


fig. 4.

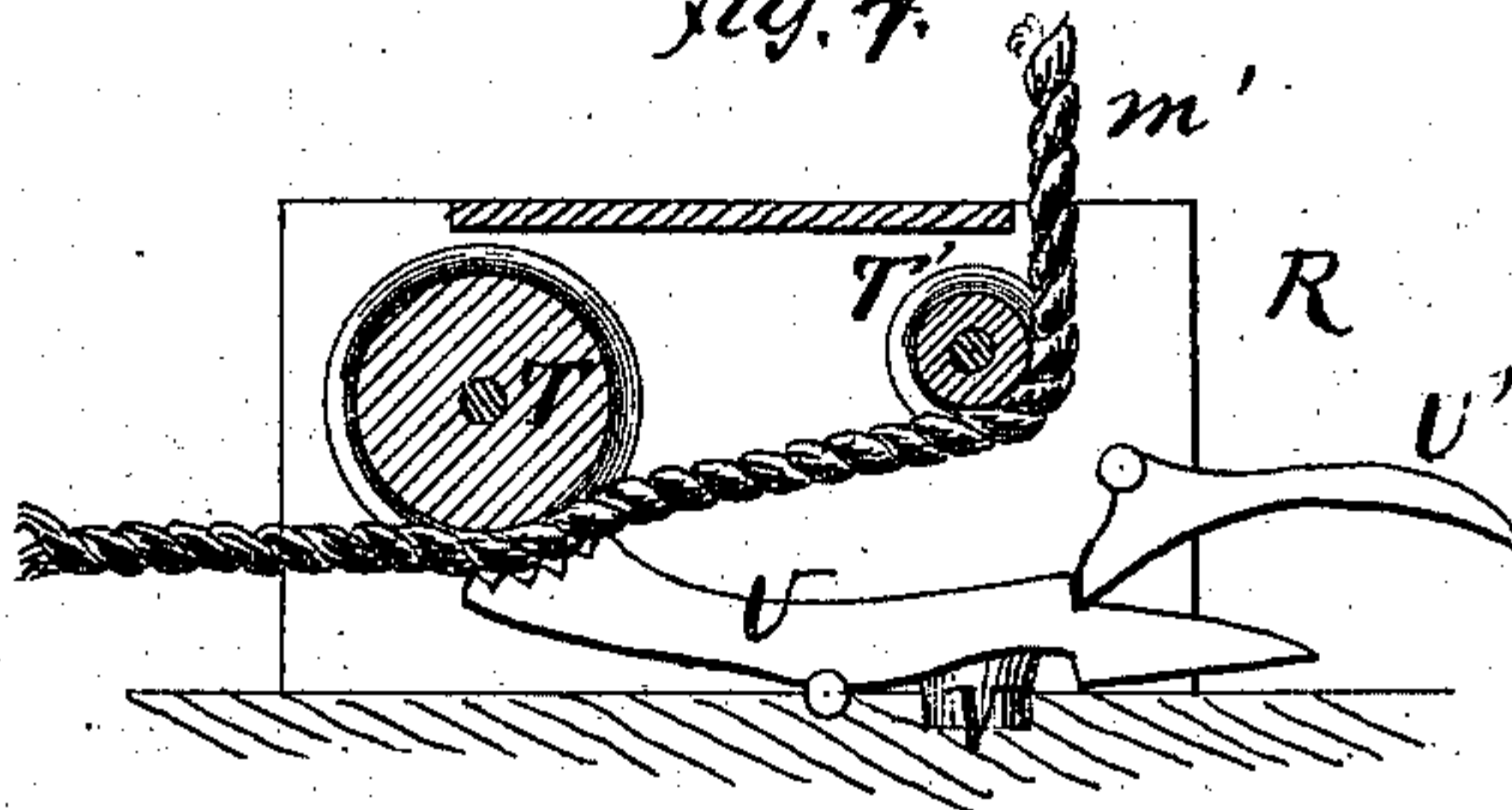
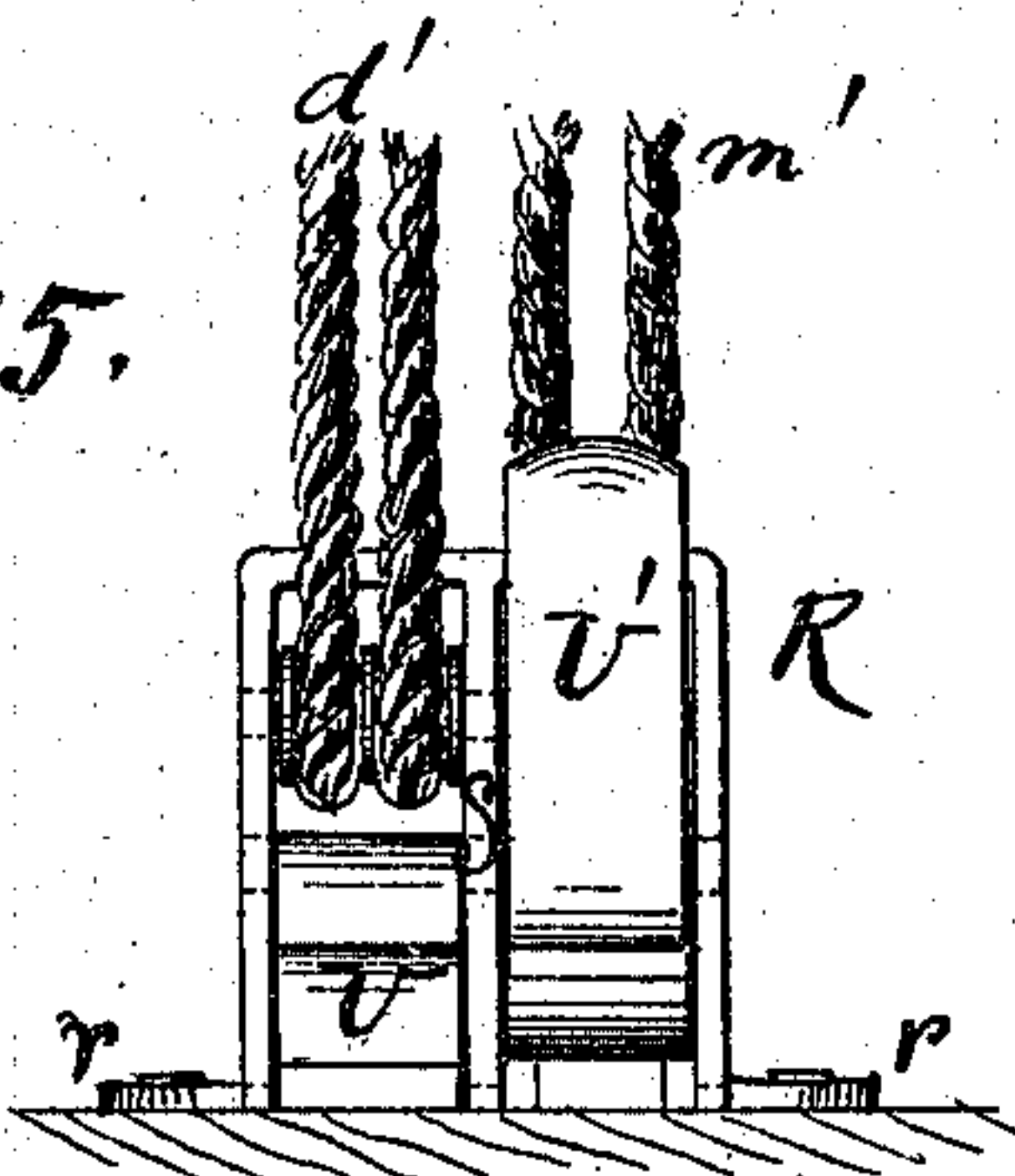


fig. 5.



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United States Patent Office.

CHARLES R. RAND, OF DUBUQUE, IOWA.

Letters Patent No. 112,278, dated February 28, 1871.

IMPROVEMENT IN LOCKING DEVICES FOR WINDOW-CORDS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES R. RAND, of Dubuque, in the county of Dubuque and the State of Iowa, have invented an Improvement for Locking Device for Window-Cords; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1, Sheet I, is an elevation of a window, partly in section, to show the application of my improved locking device.

Figure 2, Sheet I, is a vertical section of the same.

Figure 3, Sheet II, is a longitudinal section of the locking device, and showing the cord released.

Figure 4, Sheet II, is a longitudinal section of the locking device, with the operating cords locked in place; and

Figure 5, Sheet II, is an end elevation of the same. Similar letters indicate like parts.

My invention has for its object to provide an improved device for locking the operating cords of window-sashes and blinds in position, to hold the sashes or blinds either raised or lowered; and to this end

The invention consists in the construction of the locking device, to be hereinafter more fully described.

In the drawing—

A is the window-casing of a railroad car;

B, the sashes; and

d d', the operating cords, passing over pulleys in the usual manner.

The locking device is composed of a rectangular

case, R, with a closed top, and bolted to the window-sill through the flanges *r*.

The case is divided into two longitudinal compartments by the partition S, each provided with a grooved roller, T T', a clamping-lever, U, a locking-pawl, U', and an India-rubber spring, V.

The locking-pawls are pivoted to the lower edge of the case, with their forward serrated ends immediately beneath the rollers T, and their rear ends resting upon the springs V.

The pawls U' bear upon the rear ends of the levers, and when thrown into position shown in fig. 4, cause the serrated end of the levers to clamp the operating cords against the roller T, as shown, and when occupying the position shown in fig. 3, release the operating cords, and allow this to move freely upon the rollers T T'.

The tension of the springs V holds the serrated ends of the levers from contact with the cords and rollers when the pawls occupy the position shown in fig. 3.

Having thus described my invention,

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

The locking device, consisting of the case R, pivoted lever U, rollers T T', pawls U', and springs V, all arranged and operating substantially as described, for the purpose specified.

CHARLES R. RAND.

Witnesses:

JOSEPH HAGMANN,
V. REHRLE.