

(No Model.)

J. B. WILSON.
UMBRELLA RUNNER.

No. 273,330.

Patented Mar. 6, 1883.

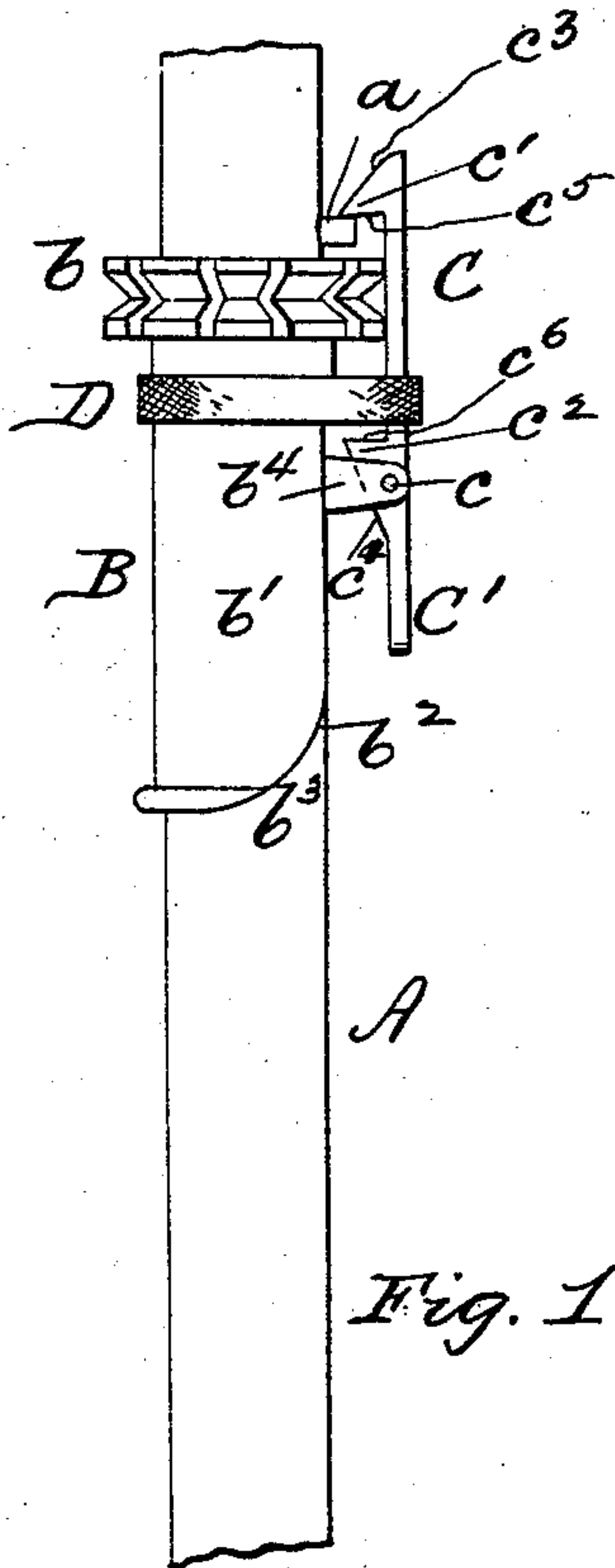


Fig. 1.

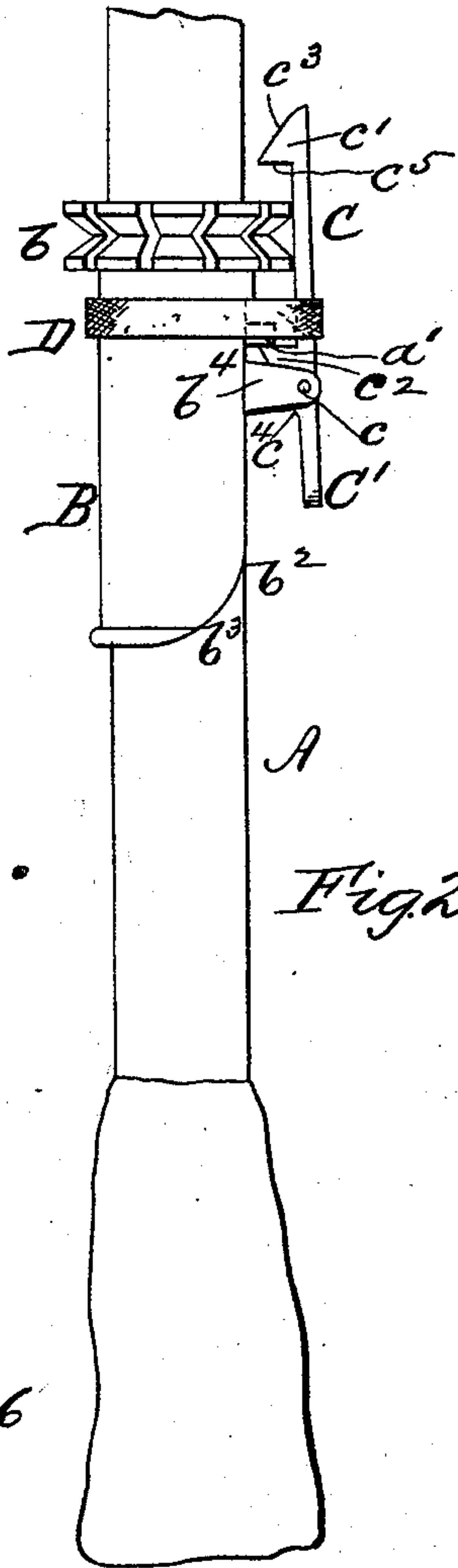


Fig. 2.

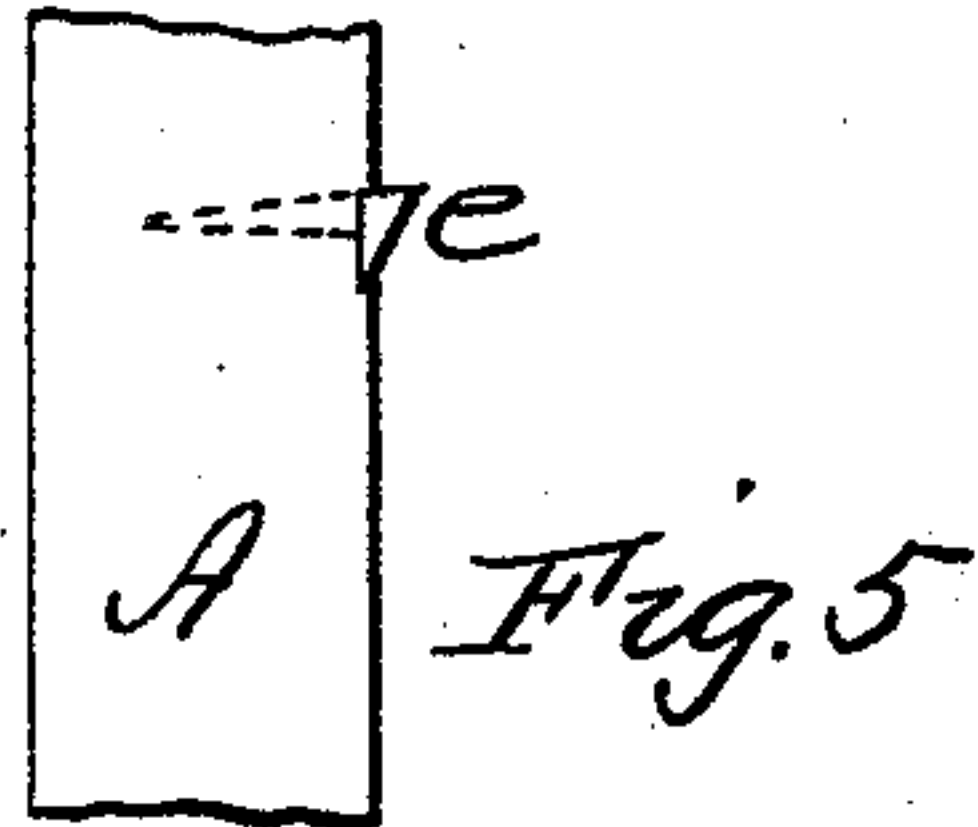


Fig. 5.

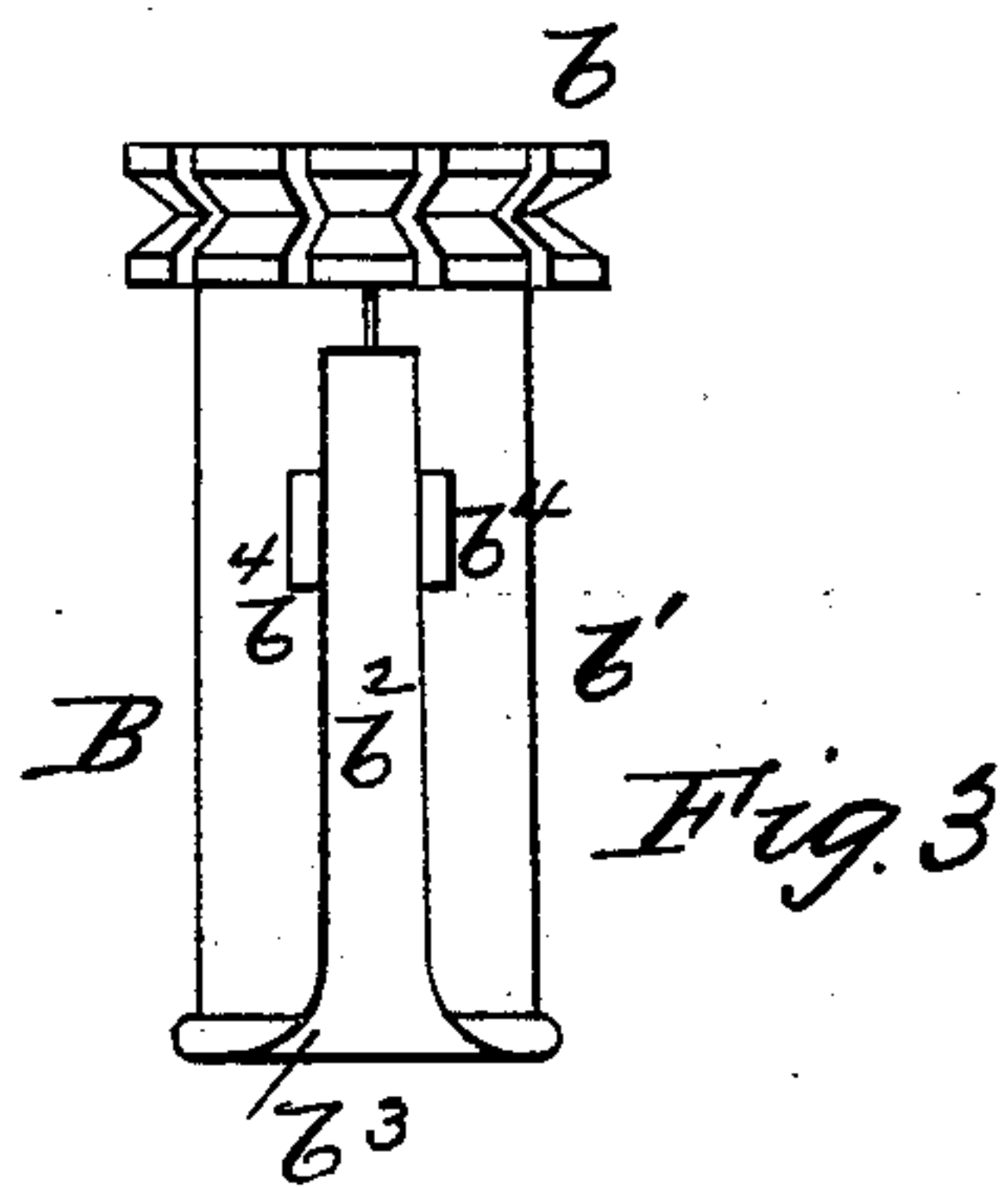


Fig. 3.

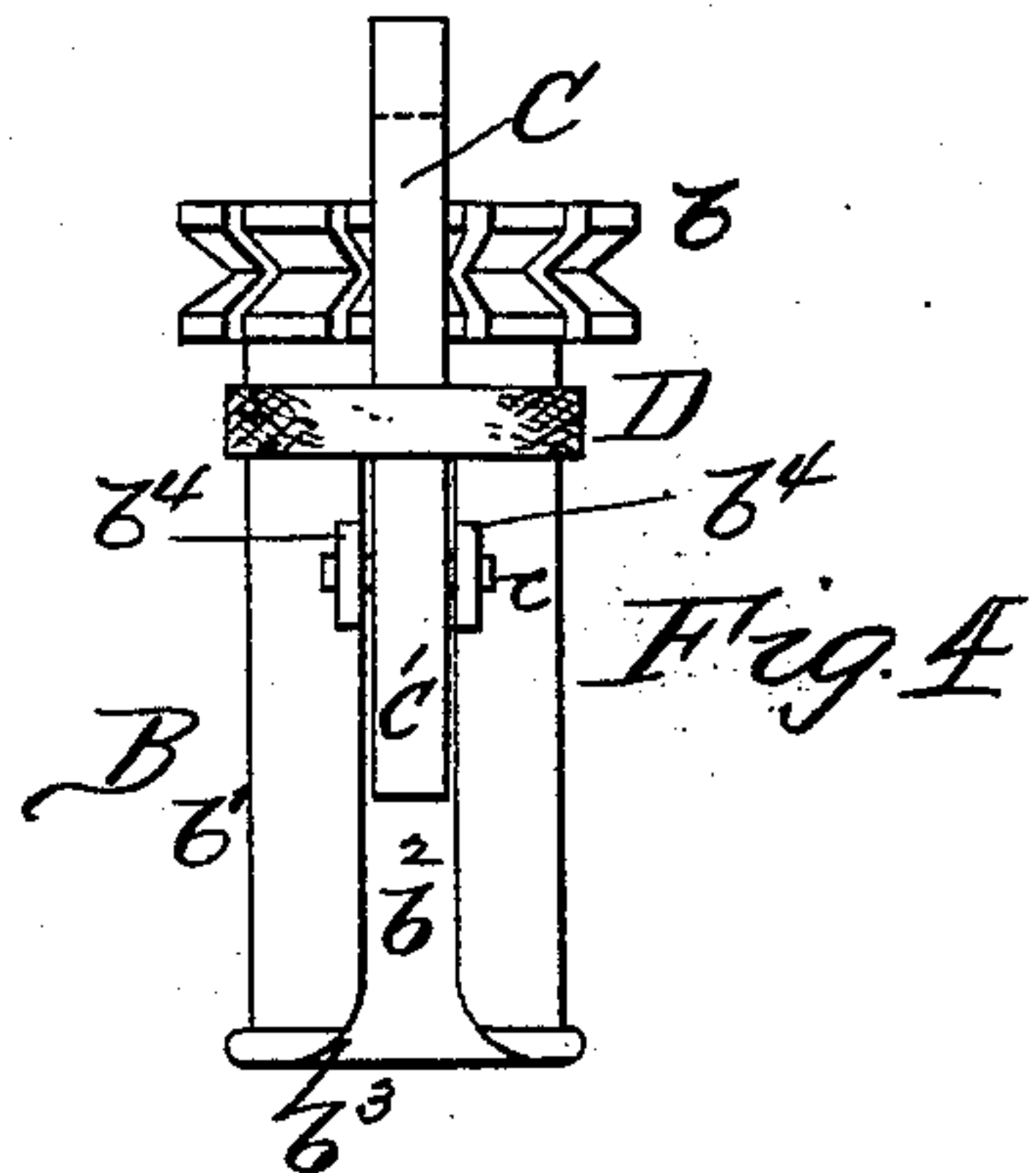


Fig. 4.

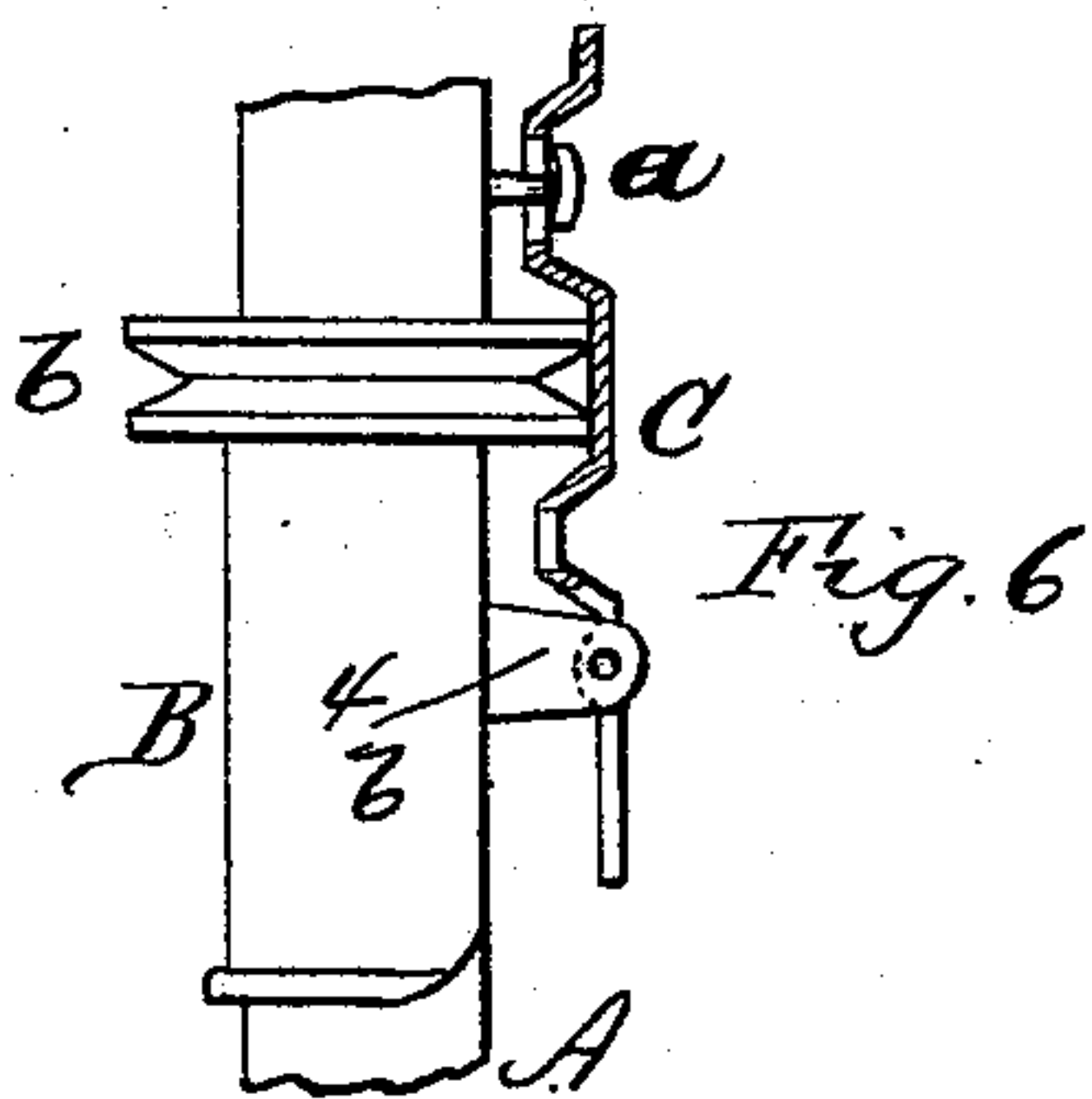


Fig. 6.

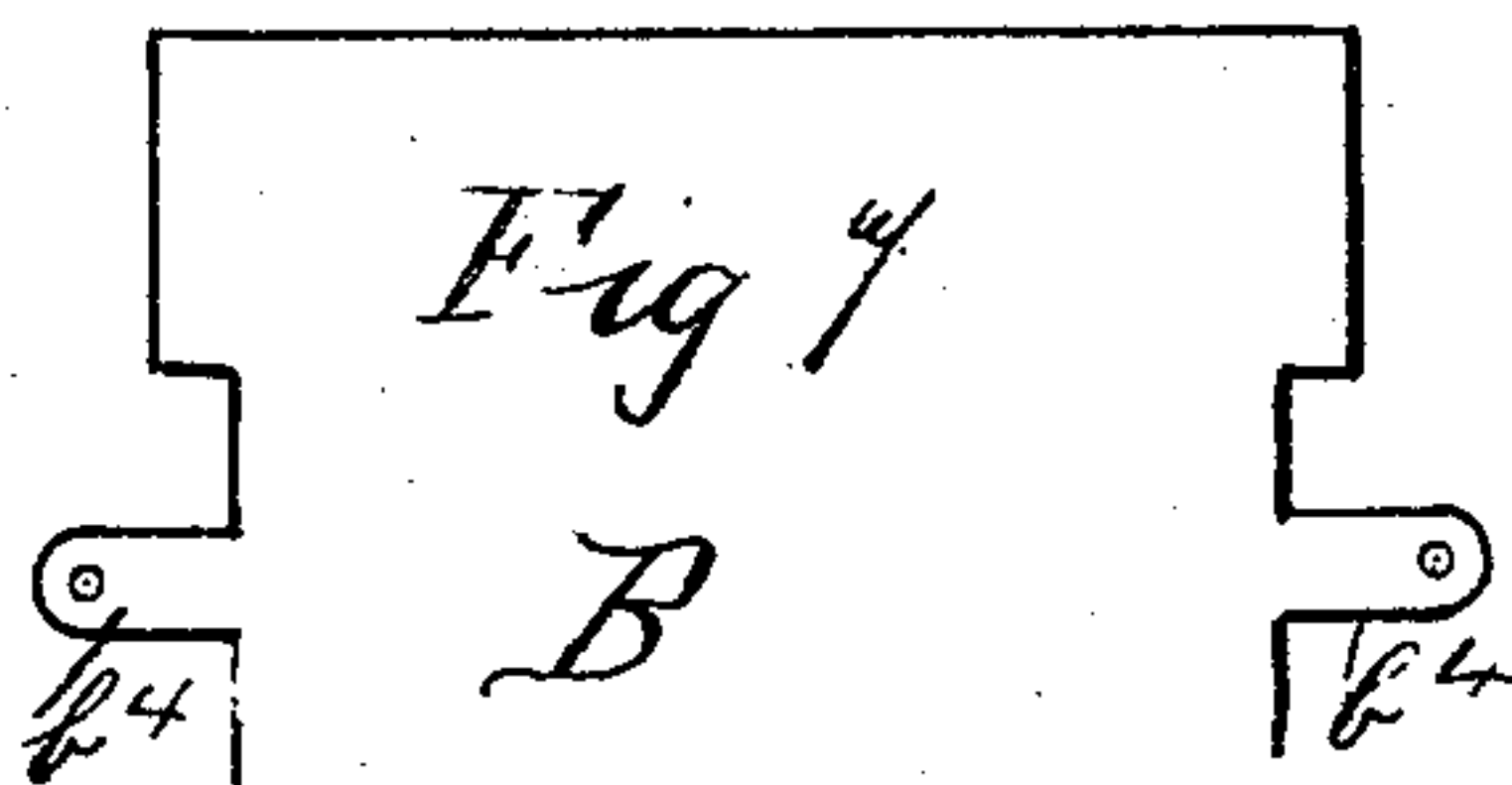


Fig. 7.

WITNESSES:
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UNITED STATES PATENT OFFICE.

JAMES BERNARD WILSON, OF PHILADELPHIA, PENNSYLVANIA.

UMBRELLA-RUNNER.

SPECIFICATION forming part of Letters Patent No. 273,330, dated March 6, 1883.

Application filed February 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES BERNARD WILSON, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Umbrella-Runners; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification, in which—

Figures 1 and 2 are elevations of a broken umbrella-stick with my improved runners shown as applied thereto. Figs. 3 and 4 are elevations of said runner, the former being without the latch mechanism; and Figs. 5 and 6 are elevations of modifications. Fig. 7 represents the blank from which the runner is formed.

My invention has for its object to provide an umbrella-runner so constructed that it will effect the fastening of the umbrella in its open and its closed positions without the employment of the usual spring used for that purpose, which spring involves the cutting of a kerf in the stick that weakens the latter.

My improvements relate to an umbrella-runner having a spring-latch peculiarly constructed and arranged, as hereinafter fully described.

Referring to the accompanying drawings, A designates an umbrella-stick having two pins, *a* and *a'*.

B is a runner, composed of a notch, *b*, and sleeve *b'*. The notch *b* is of the usual construction, while the sleeve *b'* has a longitudinal slot, *b²*, whose lower end is flared, as shown at *b³*. The edges of the slot are shaped to form two ears, *b⁴* *b⁴*, which are turned up, as shown, and pierced for the passage of a pin, *c*, which forms the shaft or pivot of a latch, C. Said latch is formed with two catches, *c'* *c²*, which have inclines *c³* *c⁴*, sloping in opposite directions, respectively, and straight shoulders or faces *c⁵* *c⁶*. The catch *c'* is above the notch *b*, and the catch *c²* below said notch, a portion of the latch between said catches resting, when neither of the latter is in engagement with its pin, on the notch, so that in moving the runner on the stick the latter will not be scratched by said latch.

D represents an india-rubber band, which encircles the sleeve and latch below the notch

and above the catch, serving as a spring, whose tendency is to draw the catch ends of the latch toward the stick. In lieu of this band, a spiral or other spring may be applied in any suitable manner to effect the same result.

The operation is as follows: To close the umbrella, the runner is moved on the stick toward the handle until the pin *a'* enters the slot *b²* and engages with the catch *c²*. To open the umbrella, the latch is first depressed by pressure applied to the lower end or thumb-piece, C', and the runner then moved up the stick until the catch *c'* engages with the pin *a*. To release the engagement, the latch is depressed as before and the runner moved down upon the stick.

In lieu of straight holding-pins *a* *a'*, bevel-headed tacks *e* (shown in Fig. 5) may be employed.

The advantages of the construction herein described are as follows: The latch projecting above the notch, the latter does not require to have an opening for the passage of the upper holding-pin on the stick, as would be necessary were such latch wholly below the notch, and said latch having two catches, both of which are above the pivotal point or fulcrum, it is adapted to engage with both holding-pins and to be released from engagement with either by depression of its lower end or short arm. As the latch projects over the notch, it is supported on the latter and prevented from scratching the stick. When the umbrella is closed the holding-pin *a'* is between the shoulder *c⁶* of the catch *c'* and notch *b*. When the umbrella is opened the pin *a* is between the shoulder *c⁵* of catch *c'* and the notch. In both cases the holding-pin is between the shoulders of one of the catches of the latch and the notch, so that movement of the runner in either direction—i. e., up or down—is prevented until the latch is duly depressed to effect disengagement.

The latch is shown as made with two shoulders, which form the catches, and against which the stick-pins abut; but it may be in the form of a bent lever having openings for the passage of said pins, as shown in Fig. 6.

Instead of a straight or a triangular headed pin, as shown in Figs. 1 and 5, the holding-pins may have curved bars as heads, as shown in

Fig. 6, with the edges of which the latch engages. The pins may be made of wire bent to form heads.

I have not herein claimed the slide having a slot extending its entire length, the metal on either side thereof being turned up or bent radially outward to form bearings for the lever, because the same forms the subject of another application I have made for Letters Patent, in favor of which said application the subject-matter just mentioned is herein and hereby disclaimed.

What I claim as my invention is—

1. An umbrella-runner having a slot for the reception of a holding-pin, and having the sides of the said slot bent up to form bearings for a spring-catch, formed of a single piece of metal, having two catches—one above and the other below the notch—the catch being so arranged as to rest upon the notch while the runner is being moved along the stick, substantially as described.

2. The combination, with runner B and notch *b'*, of lever C, having two catches above its pivotal point, one of said catches being above, the other below, the notch, and the said lever being pivoted on said runner, substantially as described, whereby it may be vibrated transversely to the longitudinal axis of said runner, as set forth.

3. The combination, with the sleeve *b'* and notch *b* of an umbrella-runner, of the lever C, fulcrumed on the sleeve and supported on the notch to avoid contact with the umbrella-stick, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of February, 1882.

JAMES BERNARD WILSON.

Witnesses:

ANDREW ZANE, Jr.,

S. J. VAN STAVOREN.