

EDWIN RUSSELL.

Extension Tube for Chandeliers.

No. 125,619.

Patented April 9, 1872.

fig. 1.

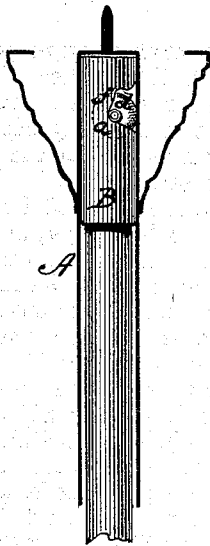
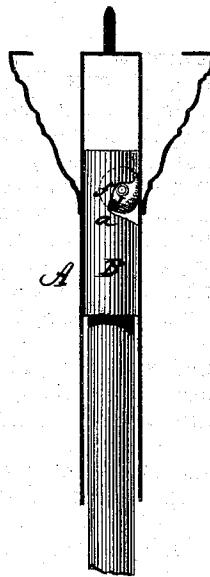


fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN EXTENSION TUBES FOR CHANDELIERS.

Specification forming part of Letters Patent No. 125,619, dated April 9, 1872.

To all whom it may concern:

Be it known that I, EDWIN RUSSELL, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Extension Tube for Chandeliers, &c.; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a sectional side view, illustrating the position in raising; and in Fig. 2, the same, illustrating the position when stationary or being drawn down.

This invention relates to an improvement in extension device for chandeliers and gas-brackets, particularly for those supporting kerosene or similar burners; and it consists in the arrangement of a rod or tube within a second tube, the inner provided with a frictional roll or wheel, the bearings for which are formed on the inner tube or rod and inclined so that, when raising or contracting the rod or tubes, the said frictional wheel will be free, but when the weight or other device tends to extend the rod or tubes, then the roll will run up the incline and bear against the outer tube with sufficient force to sustain the weight and yet allow the rod or tube to be drawn out when a greater power is applied for that purpose.

A is the outer tube, which is secured to the ceiling; B, the inner tube or rod, having a bearing, *a*, upon which is placed a roll, *d*, of India rubber or any suitable material, the bear-

ing *a* being in such relative position to the outer tube that the surface of the roll will touch the interior surface of the outer tube, but not so as to create any friction when the rod B is being moved into the tube—that is, in the position seen in Fig. 1. When the rod B is drawn out, then the roll *d* runs up the incline *f* above the bearing *a*, and this incline throws the roll outward to cause it to bear with greater force against the inner surface of the outer tube sufficient to sustain the chandelier or whatever may be suspended thereto, but yet so that a greater force applied will draw the inner tube from the outer, the incline and size of the roll being adjusted to accommodate the weight to be sustained.

It will be observed that the construction, as thus far described, provides for the attachment of the chandelier to the inner tube; but this may be reversed by inverting the tube.

I claim as my invention—

The herein-described extension for chandeliers, consisting of one tube or rod, B, within another tube, A, to one of which a chandelier is attached, the said inner tube being constructed with an inclined bearing to receive a frictional roll, *d*, and operating in the movement of either of the said outer or inner tube, or rod to sustain the said moving tube or rod in one direction and allow its free movement in the opposite direction, substantially as set forth.

EDWIN RUSSELL.

Witnesses:

CHAS. W. GILLETTE,
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