P. J. CLARK & J. KINTZ.
Extension-Chandelier.

No. 222,771. Patented Dec. 23, 1879.

Fig. 2

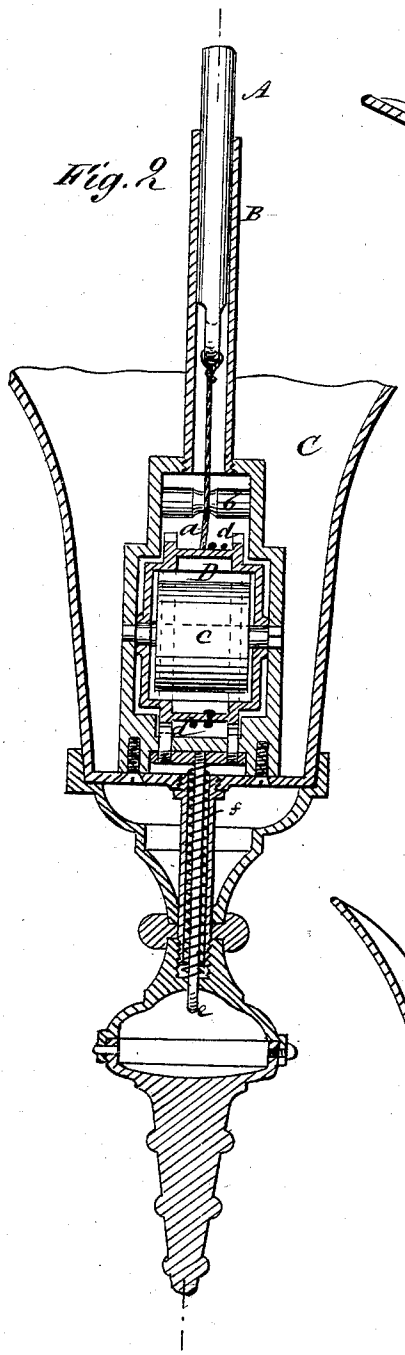


Fig. 1

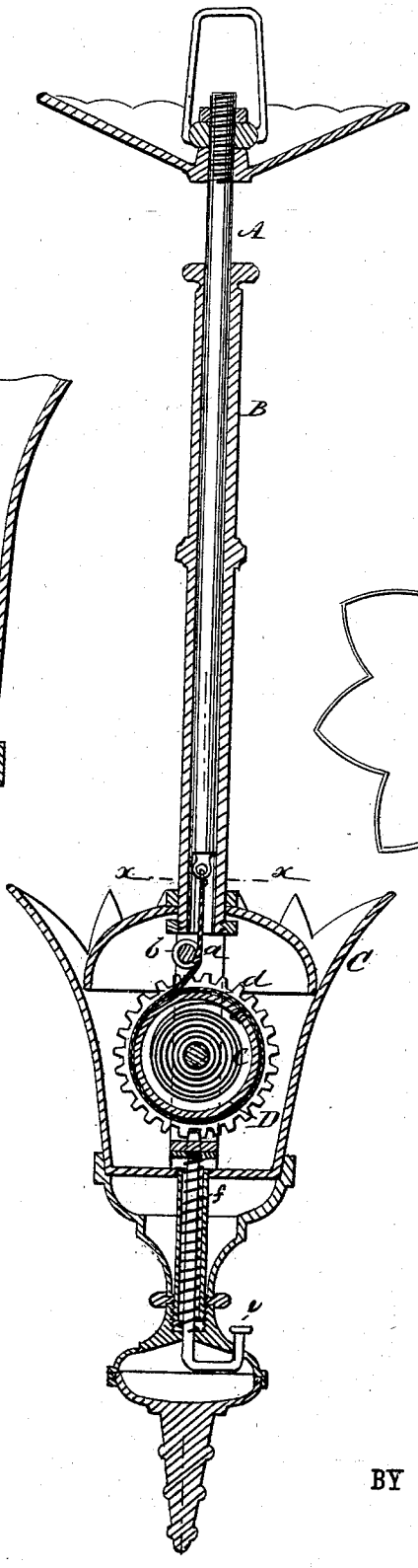
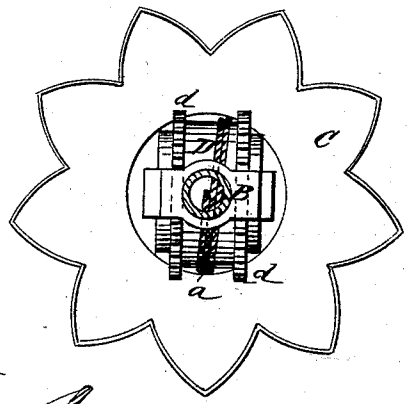


Fig. 3



WITNESSES:
C. Neveux
b. Sedgwick

INVENTOR:
P. J. Clark
J. Kintz
BY Munn & Co
ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

PARTRICK J. CLARK AND JOSEPH KINTZ, OF WEST MERIDEN, CONN.

IMPROVEMENT IN EXTENSION-CHANDELIERS.

Specification forming part of Letters Patent No. **222,771**, dated December 23, 1879; application filed March 25, 1879.

To all whom it may concern:

Be it known that we, PARTRICK J. CLARK and JOSEPH KINTZ, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Extension-Chandeliers, of which the following is a specification.

Our invention relates to chandeliers that are fitted with telescopic joints, whereby the lower portion, carrying the burners, may be raised and lowered on a fixed rod attached to the ceiling.

The invention consists in certain novel features of construction and arrangement, whereby the chandelier is rendered compact and the movable parts are sustained securely in position when adjusted.

In the accompanying drawings, Figure 1 is a sectional elevation of our improved chandelier. Fig. 2 is a similar view at right angles to Fig. 1. Fig. 3 is a cross-section on line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

The rod or tube A is adapted for hanging from a ceiling, or for rigid attachment in any usual manner, and carries the telescopically-sliding tube B, to the lower end of which is connected the center-piece C of the chandelier.

The branches or arms for supporting the burners are not shown, and may be attached upon tube B or piece C in any usual manner.

The tube B and its attached parts are suspended by a chain, band, or cord, *a*, that is connected to the lower end of A and passed around a spring-barrel, D, which is sustained in bearings in a center-piece, C.

The end of cord *a* is connected securely to D, and an intermediate friction-roller, *b*, prevents friction of the cord or chain against the lower end of the tube.

The barrel D is sustained in any desired manner, and contains one or more coiled springs, *c*, that tend to wind the cord *a* on the barrel, and thus raise the chandelier. The spring should be sufficiently strong to raise the parts easily.

Upon the barrel D are cogged flanges *d*, and fitted to slide vertically in the lower pendant of the chandelier is a rod or pin, *e*, the upper forked end of which is caused by a coiled spring, *f*, to engage with the notches in flanges *d d*, and thereby prevent the barrel from turning.

The lower end of *e* is curved or bent outward through the side of the pendant, and is formed with a finger-knob.

By pressing upon the knob of *e* its upper end is disengaged from the teeth on the drum, and the chandelier may then be drawn down, and the pin or stop released to hold it at the desired place; or, by releasing the pin or stop, as described, the spring is permitted to act and raise the chandelier.

The described construction is simple, compact, durable, and efficient for the purposes intended.

The chandelier is easily manipulated, and the weight of the suspended parts is not sustained by balancing, but by a positive stop that may be applied at any point in the range of movement.

We are aware that a chandelier has been supported in any position into which it has been adjusted by the tension of a spring inclosed in a drum, the said spring being wound up by the unwinding of the cord, which is first secured to a rod sliding in a tube, then passed over a small pulley and secured to a shaft whose ends are provided with gear-wheels which mesh with a gear-wheel on the bottom of the drum.

We are also aware that a spring-shaft connected by a cord to a tube sliding within another tube, and provided with a gear-wheel which is engaged by a detent of a spring-operated lever to hold the chandelier in any desired position, is old; and we are also aware that a screw-rod which passes through a correspondingly-grooved plate at the bottom of a tube, and provided with a notched disk engaged by a spring-catch to hold the chandelier in any desired position, is likewise old; and we therefore do not claim, broadly, a chandelier capable of being raised or lowered; but

What we claim, and desire to secure by Letters Patent, is—

The combination of the rod A, the rope or chain *a*, the roller *b*, the flanged drum D, provided with teeth *d* on the said flanges, the spring *c*, the forked pin or stop *e*, and the coiled spring *f*, with the tube B and centerpiece C, substantially as and for the purpose set forth.

PARTRICK J. CLARK.
JOSEPH KINTZ.

Witnesses:
WILBUR F. DAVIS,
CHARLES E. GOODRICH.