

F. R. & A. P. MINARD.  
Candlesticks.

No. 198,660.

Patented Dec. 25, 1877.

Fig. 1.

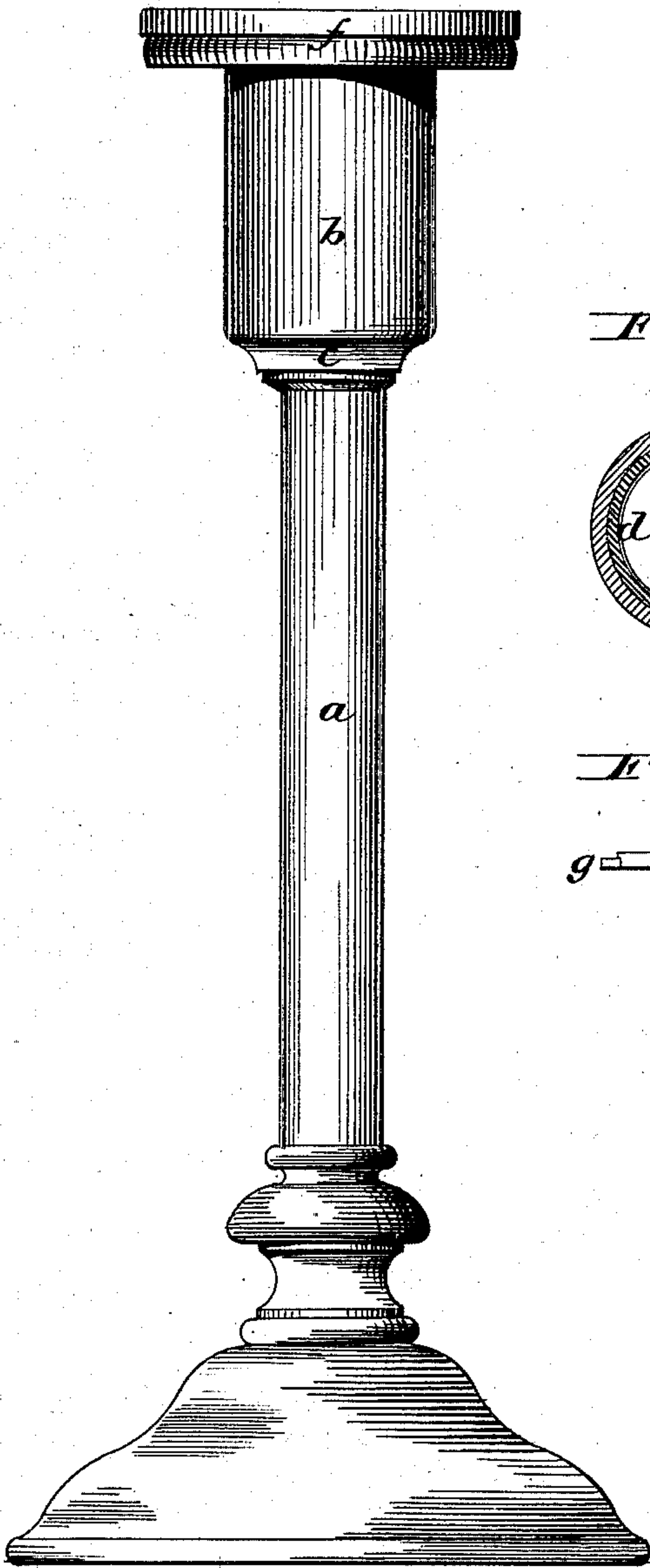


Fig. 2.

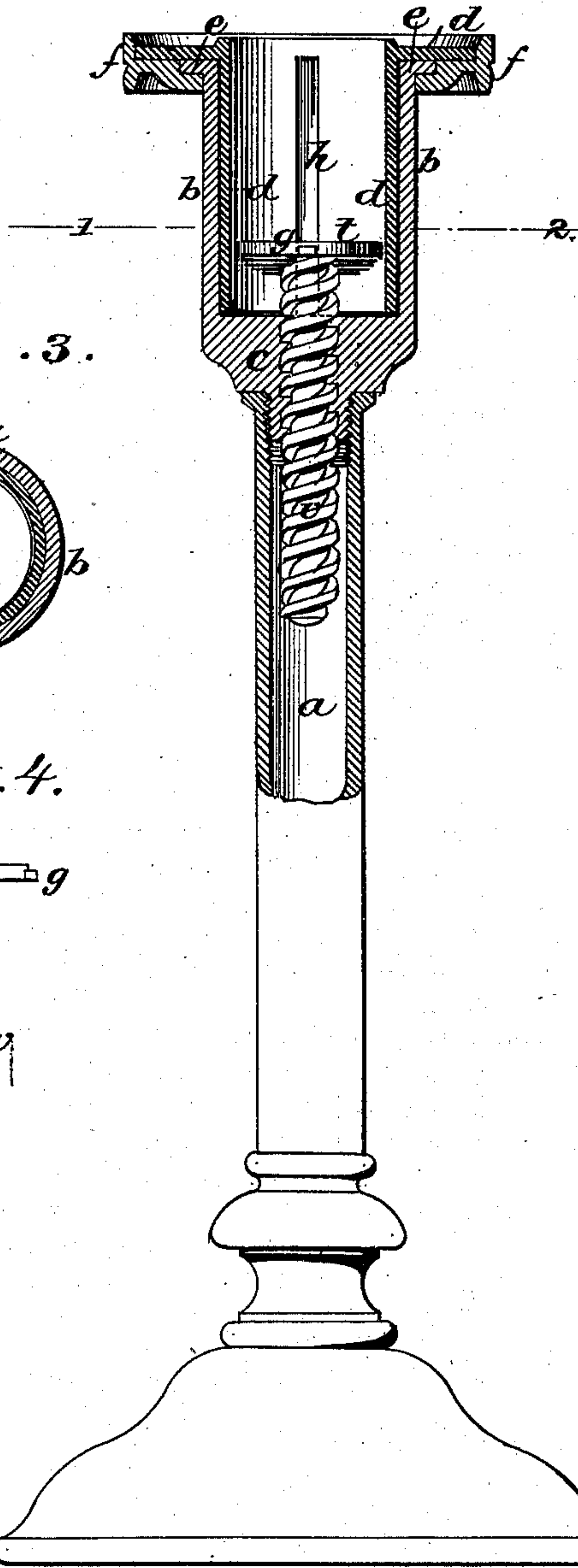


Fig. 3.

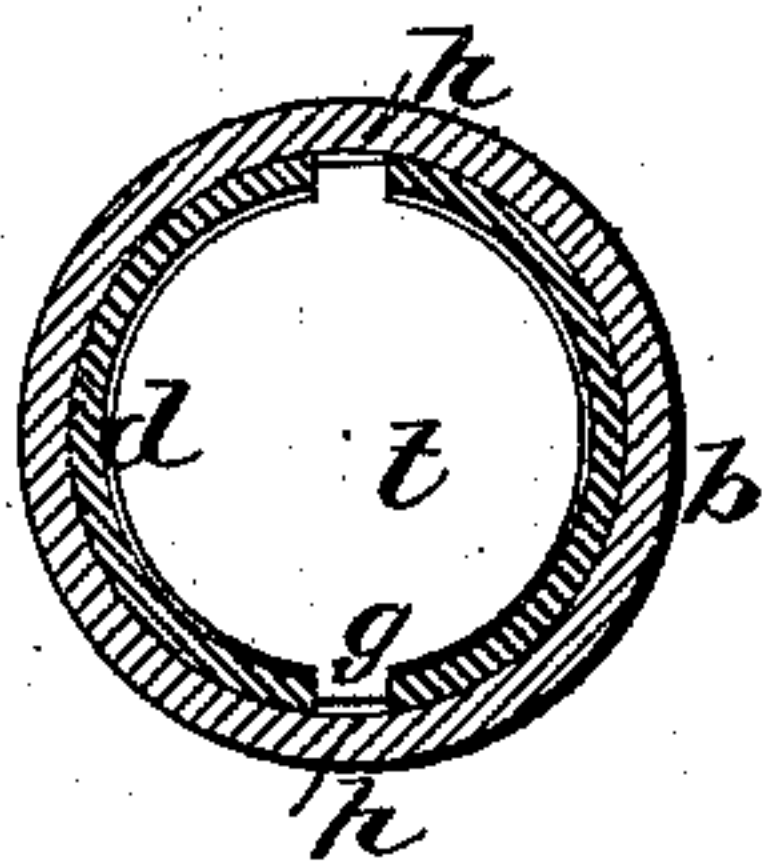
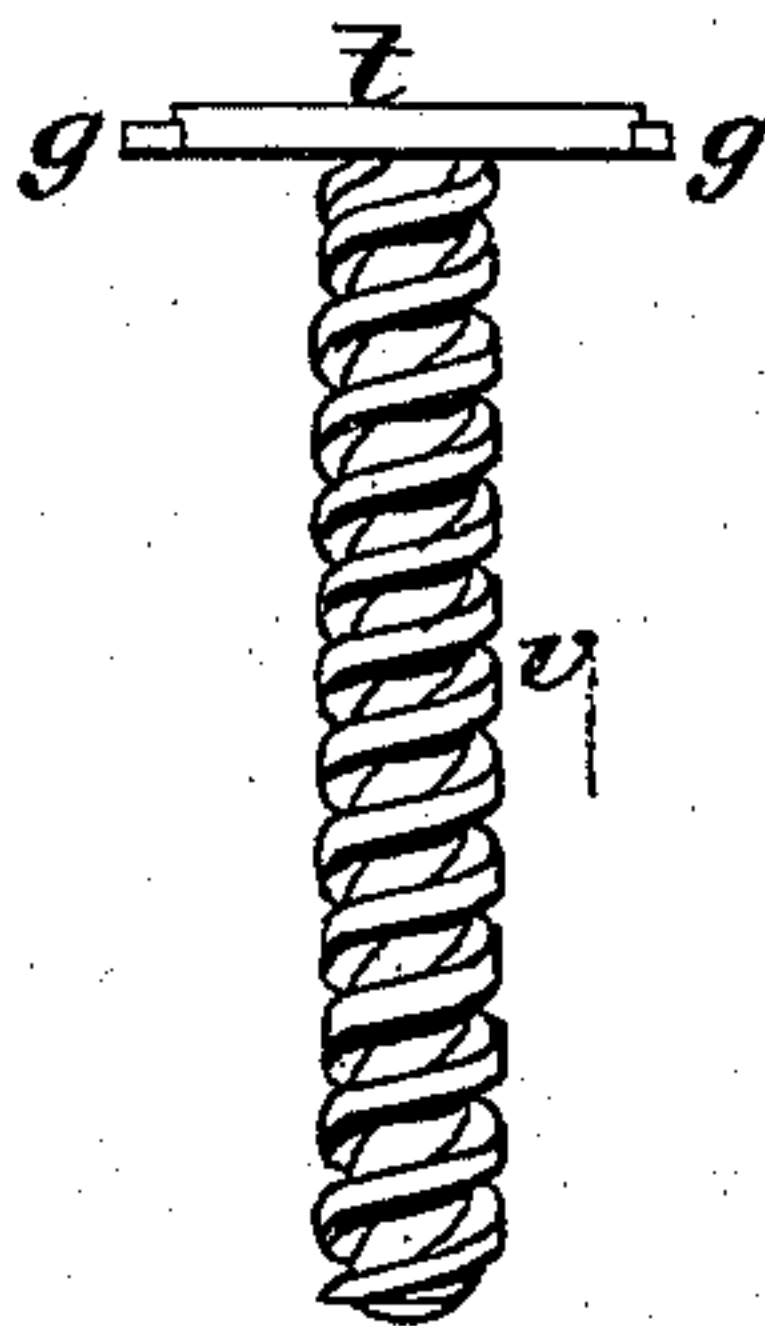


Fig. 4.



Attest:  
J. C. Perrine  
James M. Wright, Jr.

Francis R. Minard.  
Armand P. Minard.  
Inventors.

By James L. Norris  
Attorney.



# UNITED STATES PATENT OFFICE.

FRANÇOIS R. MINARD AND ARMAND P. MINARD, OF PARIS, FRANCE.

## IMPROVEMENT IN CANDLESTICKS.

Specification forming part of Letters Patent No. **198,660**, dated December 25, 1877; application filed August 6, 1877.

*To all whom it may concern:*

Be it known that we, FRANÇOIS ROMAIN MINARD and ARMAND PIERRE MINARD, of the city of Paris, in the Republic of France, have invented certain Improvements in Candlesticks, for regulating the burning of the candles, of which the following is a specification:

This invention has reference to candlesticks, for raising the candles as burned; the object of the invention being to facilitate the up or down movement or regulation of the candle without the application of an external knob and slide, as at present in use, which destroys the symmetrical appearance of the candlestick, our improved system being more convenient, simple, cleaner, and more elegant. As regards convenience, the resistance produced by the adhesion of the candle, caused by the melted matter, is quite overcome by the powerful action of a screw. As to elegance, the form and design of the candlestick are uninjured by the absence of the external knob and slit or groove in the stem.

In the accompanying drawings, an ordinary tall candlestick is shown having our improved screw-lift. The same mechanism is suitable to flat or other candlesticks.

Figure 1 is an elevation of a candlestick embodying our invention. Fig. 2 is a vertical section, showing the combination and disposition of the new parts; Fig. 3, a horizontal section, following the line 1 2; and Fig. 4, an external view of the screw-lift.

On the stem of the candlestick *a* the external case *b* is fixed, which turns at *c* and forms the covering to the socket *d*, in which the lower end of the candle is inserted. This socket *d* is a tube, open at both ends, and shaped to cover the piece *b* by a shoulder, *e*, above, where it is solid with it. The piece *b* terminates at the top in a rim or projection, *e*, which adjusts itself loosely in a groove or circle in the crown *f* of the socket, this screw being soldered to the socket when the parts are put together.

In the socket are two grooves or vertical spaces, *h*, which are the guides to the screw *v*. This is a double and square threaded screw, moving in the screw *c* of the head of the can-

dlestick. At the upper end of this screw is a plate, *t*, acting as a piston in the tube or socket *d*, and which moves with the tube by aid of two tenons or wings, *g g*, made on the circumference of the piston *t*, and which engage in the spaces *h* of the socket-tube *d*.

The action of the screw-lift or candle-regulator is as follows: In turning the crown *f* of the socket *d* to the right or left, a corresponding or up-and-down motion is imparted to the head or piston *t* of the screw *v*, the screw *c* serving as fulcrum. This movement causes the candle to ascend or descend, as required.

For increasing or decreasing the speed of the screw the pitch of the thread is correspondingly arranged, and a suitable number of threads made on it.

The system of candlestick described and illustrated as embodying our invention is therefore essentially characterized by the screw-lift *v*, which advantageously replaces the ordinary button and slot or groove, and has, like it, the object of moving at will the seat or plate *t* of the socket *d*, on which the candle rests, which movement is the result of the combination of a screw, the head of which forms the seat of the socket, and by turning which to the right or left, by means of the crown *f*, a simultaneous elevation or descent of the screw is effected, and consequently the candle rises and descends in like manner.

The form and dimensions of the parts and the material of construction would naturally vary to suit the form of the candlestick, and the same mechanical arrangement may be equally applied to candlesticks, lustres, chandeliers, and all kinds of candle-holders.

We claim as our invention—

The double and square threaded screw *v*, guides *h*, screw *c*, and plate or piston *t*, in combination with the movable socket *d*, shoulder *e*, tenons *g*, and crown *f*, as and for the purposes precisely as herein described.

F. R. MINARD.  
A. P. MINARD.

Witnesses:

C. BLÉTERT,  
A. BLÉTERT.