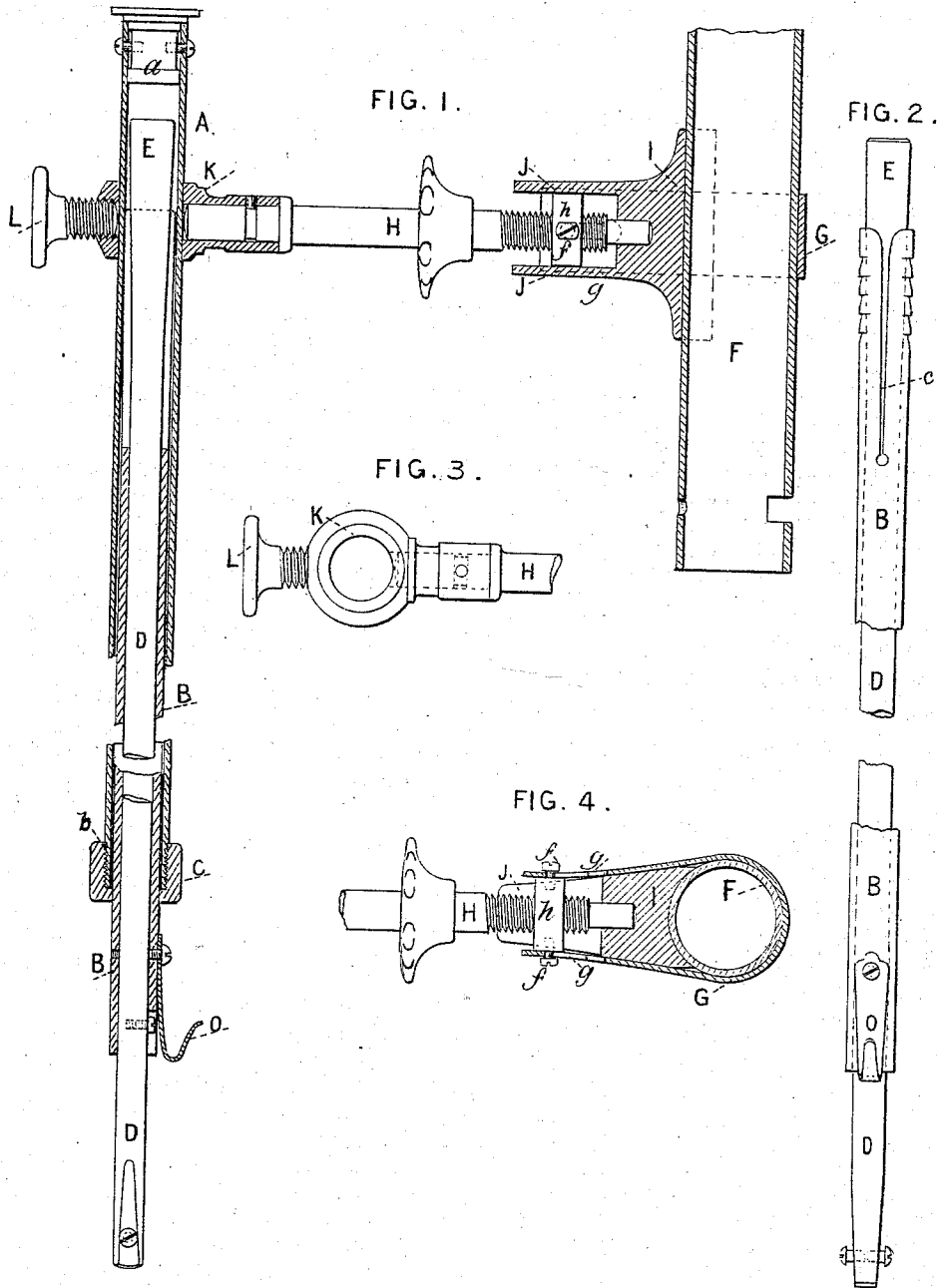


J. E. BROWNE & C. H. CARTER.
EXTENSION-CHANDELIERS.

No. 182,799.

Patented Oct. 3, 1876.



WITNESSES.

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INVENTOR.

UNITED STATES PATENT OFFICE.

JAMES E. BROWNE, OF NEWARK, NEW JERSEY, AND CHARLES H. CARTER,
OF BROOKLYN, NEW YORK.

IMPROVEMENT IN EXTENSION-CHANDELIERS.

Specification forming part of Letters Patent No. **182,799**, dated October 3, 1876; application filed
June 12, 1876.

To all whom it may concern:

Be it known that we, JAMES E. BROWNE, of Newark, Essex county, New Jersey, and CHARLES H. CARTER, of Brooklyn, Kings county, New York, have invented, made, and applied to use Improvements in the Construction of Extension-Chandeliers; and that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawing, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a side elevation of our improved extension-chandelier. Fig. 2 is a sectional view of the same. Figs. 3 and 4 are views of the clamping device employed to suspend the same.

In the drawing like parts of the invention are pointed out by the same letters of reference.

The nature of the present invention consists in certain improvements, as more fully hereinafter set forth, in the construction of extension-chandeliers, the object of the invention being the construction of an extension-chandelier that can be readily raised or lowered, and adjusted and held at different heights, as well as to provide an improved clamping device to attach the invention to a chandelier or other means of support.

To enable those skilled in the arts to make and use our invention, we will describe the construction and operation of the same.

A shows an outer tube of any length and diameter suitable for the purpose intended, within which is inserted the inner tube B, made smaller in diameter. The tube A is capped, as at *a*, and its lower end is threaded, as at *b*, and has screwed over it the collar C, through which the tube B passes. B shows a tube of smaller diameter than the tube A, and inserted in the same, being passed through the collar C and governed in its movement within the tube A by the cap *a* upon the same. This tube B is split or divided at its top or upper end, the slits or divisions *c* extending lengthwise of the tube a sufficient distance to allow the tube B to be expanded at its upper end, as more fully hereinafter described. D is a rod inserted in the tube B, and extending

above and below the same. To the lower end of this rod D are attached the lights or burners. Upon the upper end of this rod D is attached the cone E; or the metal of which the rod D is formed may be continued in its manufacture, and the cone E be thus formed, intended, as the rod D is drawn down, to enter between the split or divided portion of the tube B and expand the same.

The clamping device for attaching the extension-chandelier to a chandelier or proper support is constructed as follows: F shows the pipe of the chandelier, or the support to which the extension-chandelier is to be attached. Around this pipe or support is passed the strap G, provided at its free ends with the oblong slots *g*, through which pass screws *f*, entering into the nut *h*, passed over the end of a screw-rod, H, one end of which has its bearing in a seat or recess in the shoe I, constructed so as to partially embrace the pipe or support F, and provided with the projections J to restrain the nut *h*, and hold the same in position. Over the opposite end of the screw-rod H is passed an eye, K, free to turn upon said rod H, and intended to receive within it the outer tube A, and hold it in any desired position by means of a set-screw, L.

Such being the construction the operation may be thus set forth: The fixture is first clamped to a chandelier, or proper support for it, by passing the strap G around the same, F, and then placing the shoe I upon the opposite side of the chandelier, or proper support F, and passing one end of the screw-rod H through the nut *h*, and screwing the same into the seat or recess of the shoe I, until the shoe I has a bearing upon the chandelier or proper support F. The fixture is then passed through the eye K upon the opposite end of the screw-rod H, and is held in position by the set-screw L passed through the same and bearing upon the outer tube A.

When desired to draw down the chandelier, the tube B is first drawn down the desired distance by pressing upon the finger-rest O, and then drawing down the rod D, by which the expanding-cone E enters the split or divided portions of the tube B, which are thrown out or expanded, and have a bearing upon the in-

terior of the outer tube A, and thus hold the rod D, upon which the lamp is or the burners are attached in the desired position. When desired to restore the tube B to its former position and elevate the rod D, upon which are the burners, the rod D is first moved up, by which the expanding-cone E is relieved from its position within the split or divided portions of the tube B, sufficiently to allow these split portions of the tube B to be withdrawn from contact with the interior of the tube A, and the tube B may then be moved up within the tube A.

Having now fully set forth our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In an extension-chandelier, the combination of an outer tube, A, an inner expansible tube, B, and a rod, D, provided with a cone or wedge, E, constructed and operating substantially as and for the purpose specified.

2. The clamping device, consisting of the strap G, screw-rod H, shoe I, nut *h*, and eye K, and set-screw L, constructed and operating substantially as and for the purposes set forth.

JAMES E. BROWNE.
CHARLES H. CARTER.

In presence of—

A. SIDNEY DOANE,
JOHN W. CARTER.