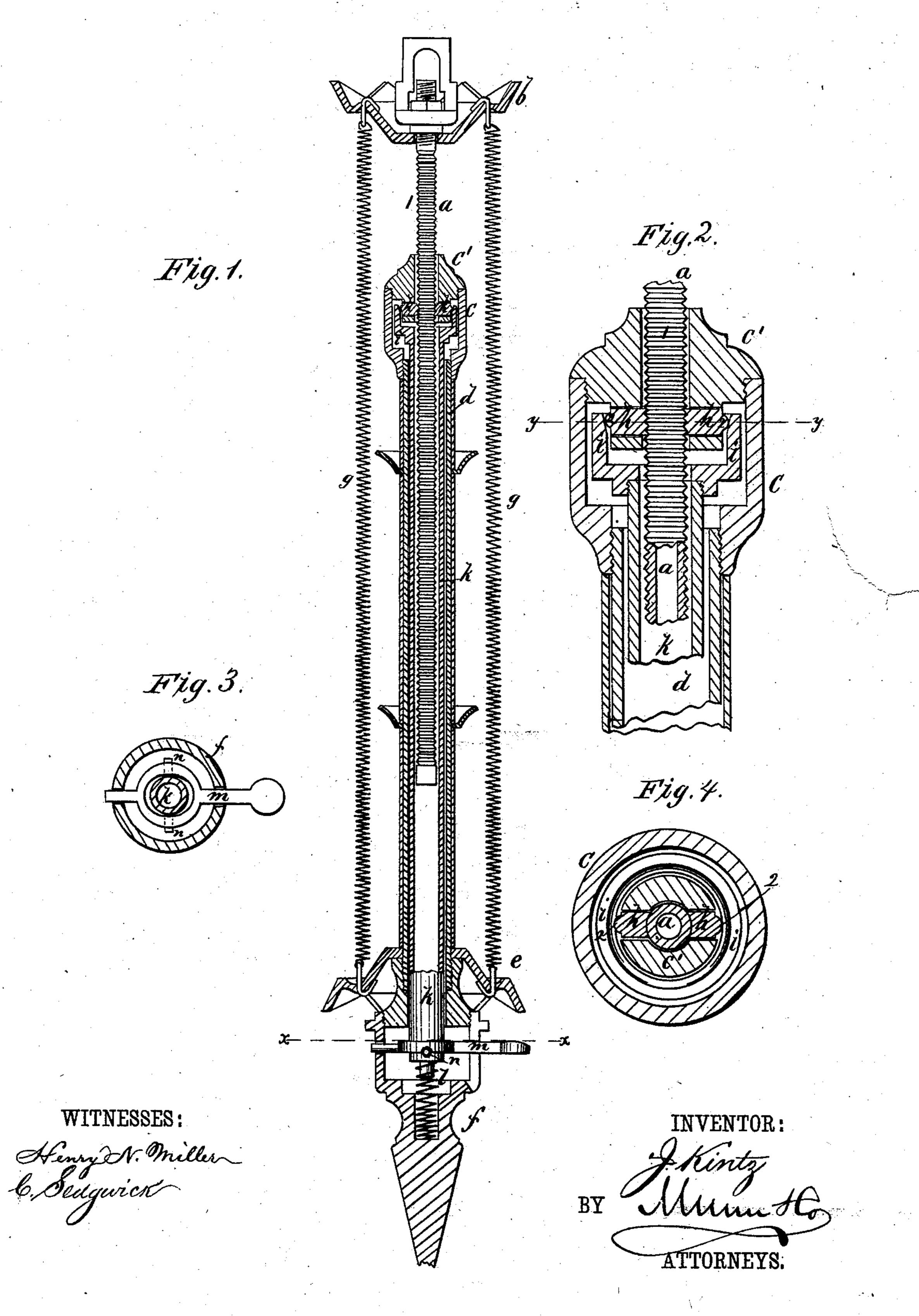
J. KINTZ.
Extension-Chandelier.

No. 224,442.

Patented Feb. 10, 1880.



United States Patent Office.

JOSEPH KINTZ, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO HIMSELF AND PARTRICK J. CLARK, OF SAME PLACE.

EXTENSION-CHANDELIER.

SPECIFICATION forming part of Letters Patent No. 224,442, dated February 10, 1880. Application filed October 28, 1879.

To all whom it may concern:

Be it known that I, Joseph Kintz, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new Im-5 provement in Extension-Chandeliers, of which

the following is a specification.

My improvements relate to the means for retaining the extension-rod in any position, as drawn out to lengthen the chandelier, and for 10 releasing the same, so that the spring may act to draw up the rod. I make use of a sliderod having its surface grooved or ribbed concentrically and sliding in a collar that is fitted with loose sectional nuts or clamping-blocks, which are inclosed within a beveled cup or ring. The cup is moved in one direction by a spring to force the nuts inward and clamp the slide-rod, and is fitted for movement by hand to release the nuts by means of a trigger placed 20 in a convenient position operating through a sliding tube that is connected to the cup.

The construction and operation will be more particularly described with reference to the

accompanying drawings, wherein—

Figure 1 is a central vertical section of the chandelier. Fig. 2 is a partial section, showing the clamping devices in enlarged size. Fig. 3 is a horizontal section on line x x of Fig. 1. Fig. 4 is a horizontal section on line y y of 30 Fig. 2.

Similar letters of reference indicate corre-

sponding parts.

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The slide-rod a is formed at its upper end with the pendent cap b, that is fitted for being suspended, and passes through the cap c' of the collar c, that is secured on the upper end of the outer tube, d. On the lower end of tube d is secured the crown-ring e, to which the branching arms of the chandelier will be con-40 nected, but are not shown, and beneath the ring e is a knob, f, by which the tube d is handled.

g g are spiral springs connected with cap b

45 attached parts upward on the rod a.

The rod a is formed upon its outer surface with concentric creases or ribs, as shown at 1, throughout its length, which are rounded upon their surfaces.

nular flange within collar c and around rod a, which flange is apertured radially to receive the sectional nut or clamping pins or blocks h h, that are formed at their inner ends with creases or grooves corresponding with the 55 ribbed surface of the rod a, with which the blocks h are intended to fit. The outer ends of blocks h are formed with rounded, inclined, or beveled projections 2, as shown. Within collar c, around the depending flange of the 60 cap c', is a ring or cup, i, the inner surface of which is in contact with the projections 2 of blocks h, and is beveled so that the upward movement of cup i will force blocks h inward. This cup i is fitted rigidly on the upper end of 65 an inner tube, k, which, for convenience of manipulation, extends to the lower end of tube d and into a recess of the knob f, at which place the tube k rests upon a spiral spring, l, that tends to force tube k upward, and by 70 the cup or ring i force blocks h inward to clamp rod a. In the recess of knob f is fitted a lever or trigger, m, which is apertured to pass around tube k above the pins n, that project from k, and the moving end of lever m extends 75 outside through a slot in knob f. By this construction the blocks hact automatically to retain the tube d and its attached parts in any position to which it may be drawn down on the rod a.

To release the blocks h for drawing down the chandelier or allowing it to be drawn up by springs g, the knob f is to be grasped and trigger m depressed, which action draws down the ring or cup i and frees the blocks h from 85 pressure, so that they will be thrown out by the pressure caused by springs g or the strength applied to draw down the tube d.

It will be seen that the ribs or creases of the rod a serve to increase the friction between 90 the rod and clamping-blocks, so that less pressure is required to hold the parts; but it is evident that by increasing the pressure the and ring e, and tending to draw tube d and its | ribs may be made quite small, or even a smooth tube used.

> Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In extension-chandeliers, the combination, The cap c' is formed with a depending an- | with the slide-rod a and extension-tube d, of roo

the cap c', radial clamping blocks or pins h, and beveled cup or ring i, the ring i being fitted to clamp or release the block h, substantially as and for the purposes specified.

5 2. In extension-chandeliers, the combination, with the slide-rod a and extension-tube d, of the cap c', radial clamping-blocks h, beveled

cup or ring i, tube k, spring l, and trigger, substantially as described and shown, and for the purposes set forth.

JOSEPH KINTZ.

Witnesses:

A. L. JUDD, CHAS. WM. MANN.