

(No Model.)

J. KLEIN.

SUSPENSION JOINT FOR CHANDELIERS.

No. 285,277.

Patented Sept. 18, 1883.

Fig. 1.

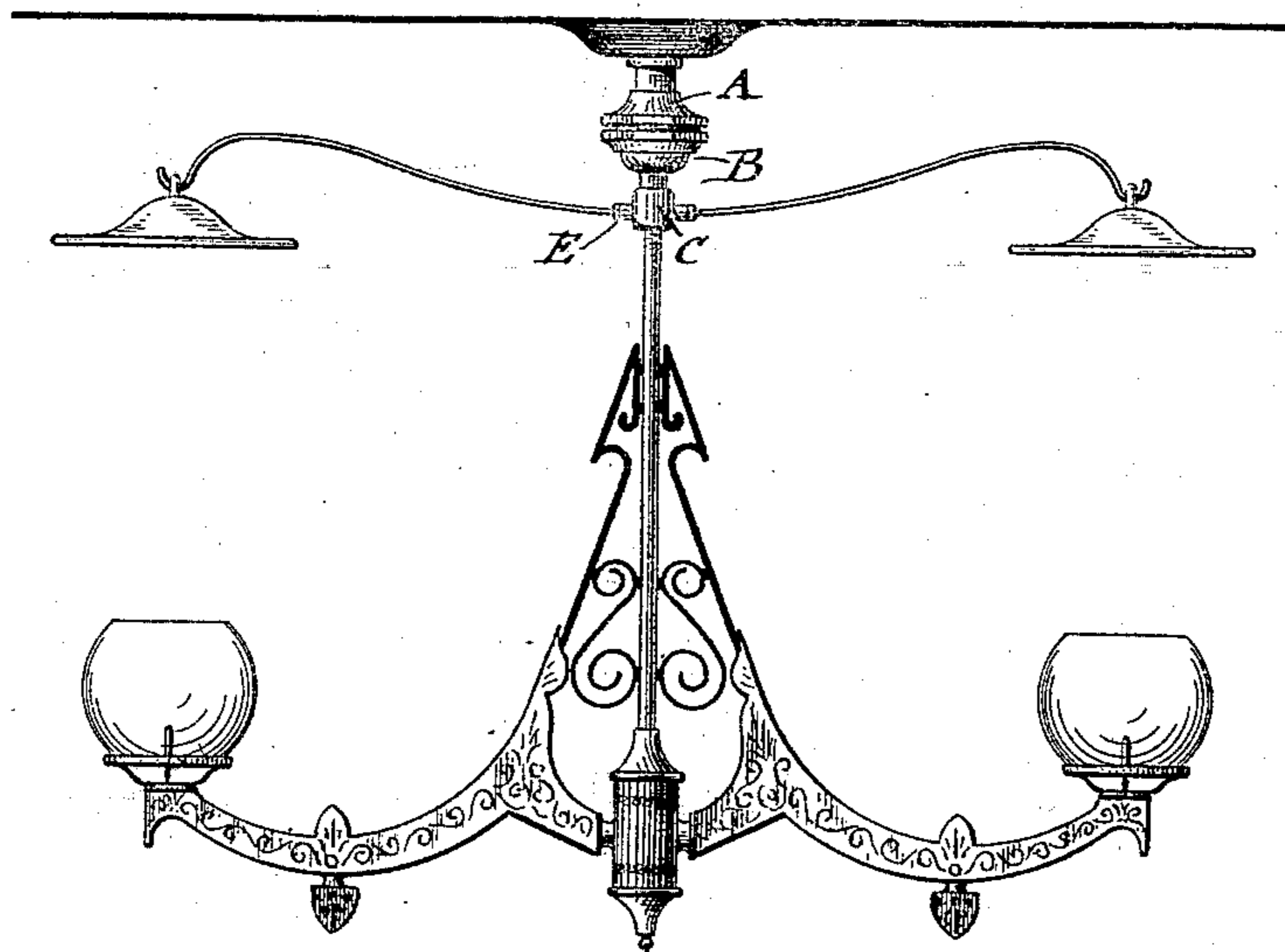
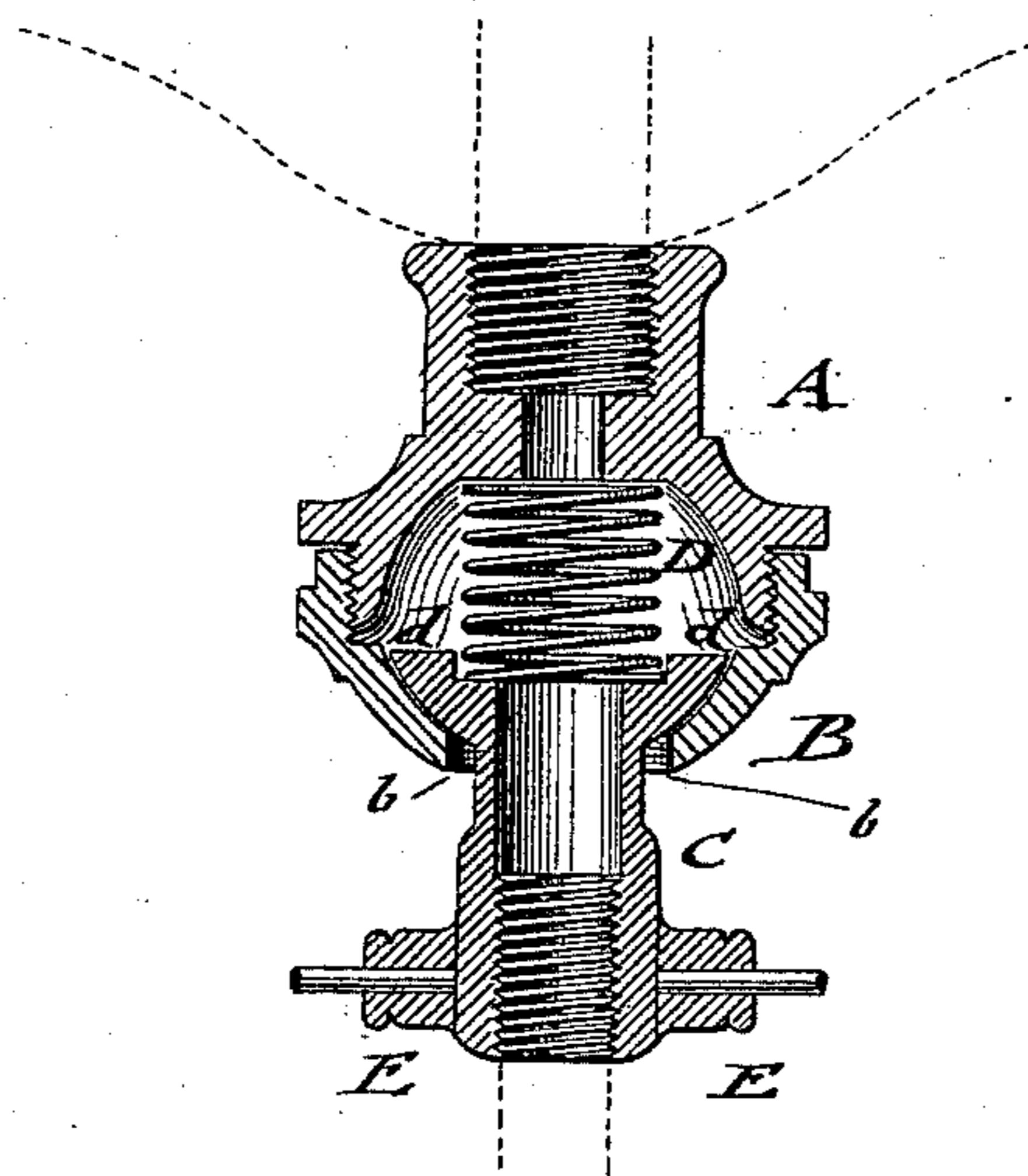


Fig. 2.



WITNESSES:

for W. Rosenbaum.
Martin Petry

INVENTOR

Josef Klein
BY *Joseph & Regener*
ATTORNEY

UNITED STATES PATENT OFFICE.

JOSEF KLEIN, OF NEW YORK, N. Y., ASSIGNOR OF ONE-THIRD TO JOSEF FISCHL, OF SAME PLACE.

SUSPENSION-JOINT FOR CHANDELIERS.

SPECIFICATION forming part of Letters Patent No. 285,277, dated September 18, 1883.

Application filed June 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEF KLEIN, of the city, county, and State of New York, have invented certain new and useful Improvements in Suspension-Joints for Chandeliers, of which the following is a specification.

This invention relates to adjustable chandeliers in which the smoke-bells move with the burners; and the invention consists in the peculiar construction of the parts, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a side view of my improved suspension-joint for chandeliers, shown in position for use. Fig. 2 is a vertical transverse section of the joint, drawn on a larger scale.

Similar letters of reference indicate corresponding parts.

A in the drawings represents the upper and B the lower section of my improved suspension-joint for chandeliers. The upper section, A, is screwed to the threaded end of the gas-pipe in the ceiling of the room, or to the shank of an eye which is hung to a fixed hook of the ceiling, according as the chandelier is fitted with gas-burners or with supports for petroleum-lamps. The lower part of the upper section has an exterior thread, to which the lower section, B, is screwed. The lower section, B, has a bottom opening, *b*, for the passage of a screw-socket, C, the upper end of which is connected to the lower section, B, by means of a ball-and-socket joint formed of an annular collar, *d*, of semicircular cross-section, that is accurately fitted to the interior of the lower section, B, which corresponds to the shape of the collar. The contact-surfaces of the collar *d* and of the lower section, B, are ground off, so that a tight joint is formed between them. The diameter of the socket C below the collar *d* is smaller than that of the bottom opening, *b*, of the section B, so that the socket C can swing freely in the lower section into any desired direction.

A strong spiral spring, D, is interposed be-

tween the upper section, A, and the collar *d* of the socket C, whereby the latter is always pressed tightly against the lower section, B, whatever the position of the socket C. The lower end of the socket C has an interior screw-thread, into which the upper end of the main tube or rod of the chandelier is screwed. A collar, E, is secured to the lower end of the socket C, to which the supporting-arms of the smoke-bells are secured.

By means of the suspension-joint the chandelier can be turned on its axis in any direction, together with the smoke-bells.

The advantages of my improved suspension-joint are that a chandelier can be lighted with great facility, without going from burner to burner or from lamp to lamp, by simply turning it on its axis to the place where the person is standing. It also facilitates the adjusting of the burners or lamps in any desired direction, together with the smoke-bells, which is a matter of great convenience, especially with a two-armed fixture.

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

In a suspension-joint for chandeliers, the combination of an upper section, A, a lower section, B, having a central bottom opening, *b*, a recessed hemispherical part, *d*, adapted to fit and turn in section B, and provided with a tubular extension, C, integral therewith, the lower end of said extension being interiorly threaded to receive the main tube of the chandelier, and provided on its exterior with a collar, E, adapted to receive the smoke-bell supports, and an extension-spring, D, interposed between the said part *d* and the section A, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOSEF KLEIN.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.