

J. A. EVARTS.
Hanging Chandeliers.

No. 78,365.

Patented May 26, 1868.

Fig. 1.

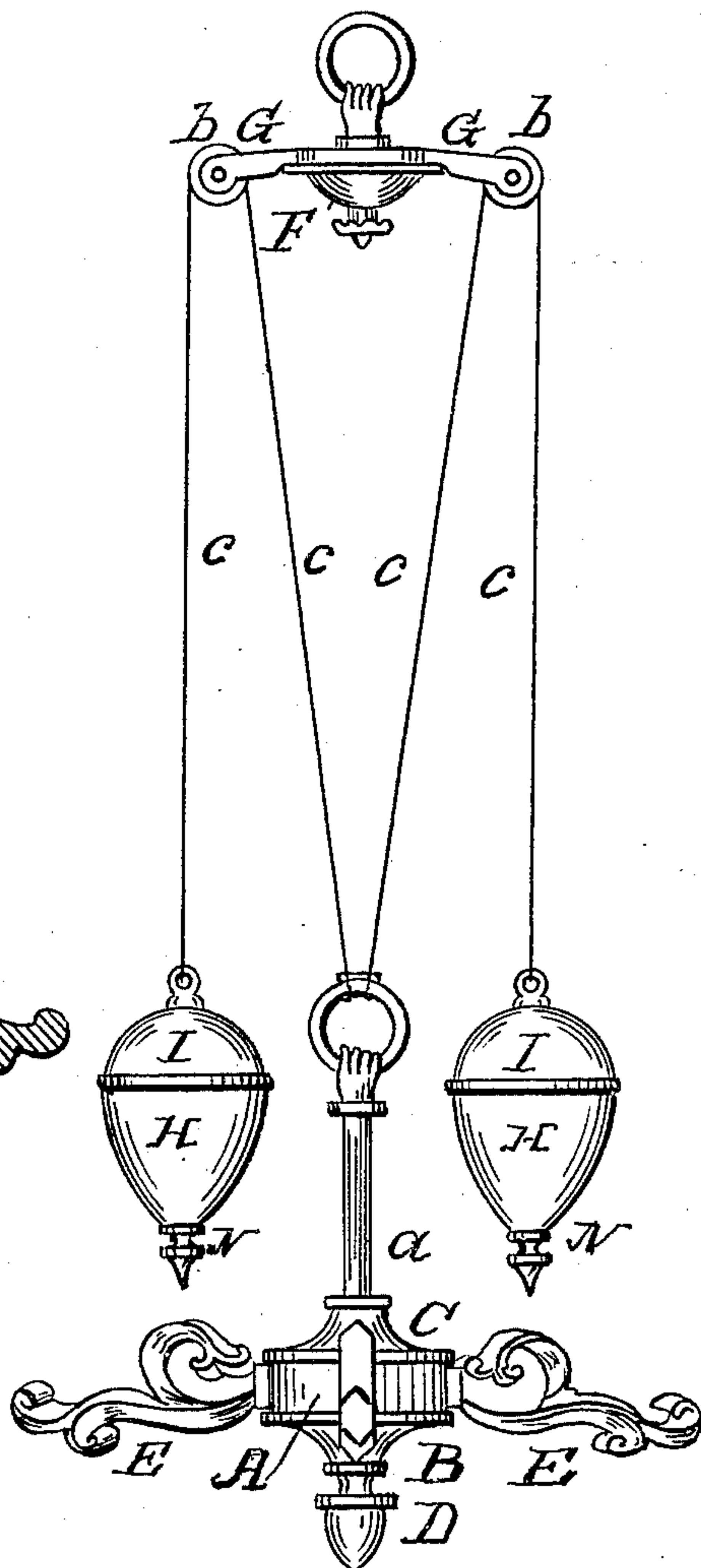


Fig. 2.

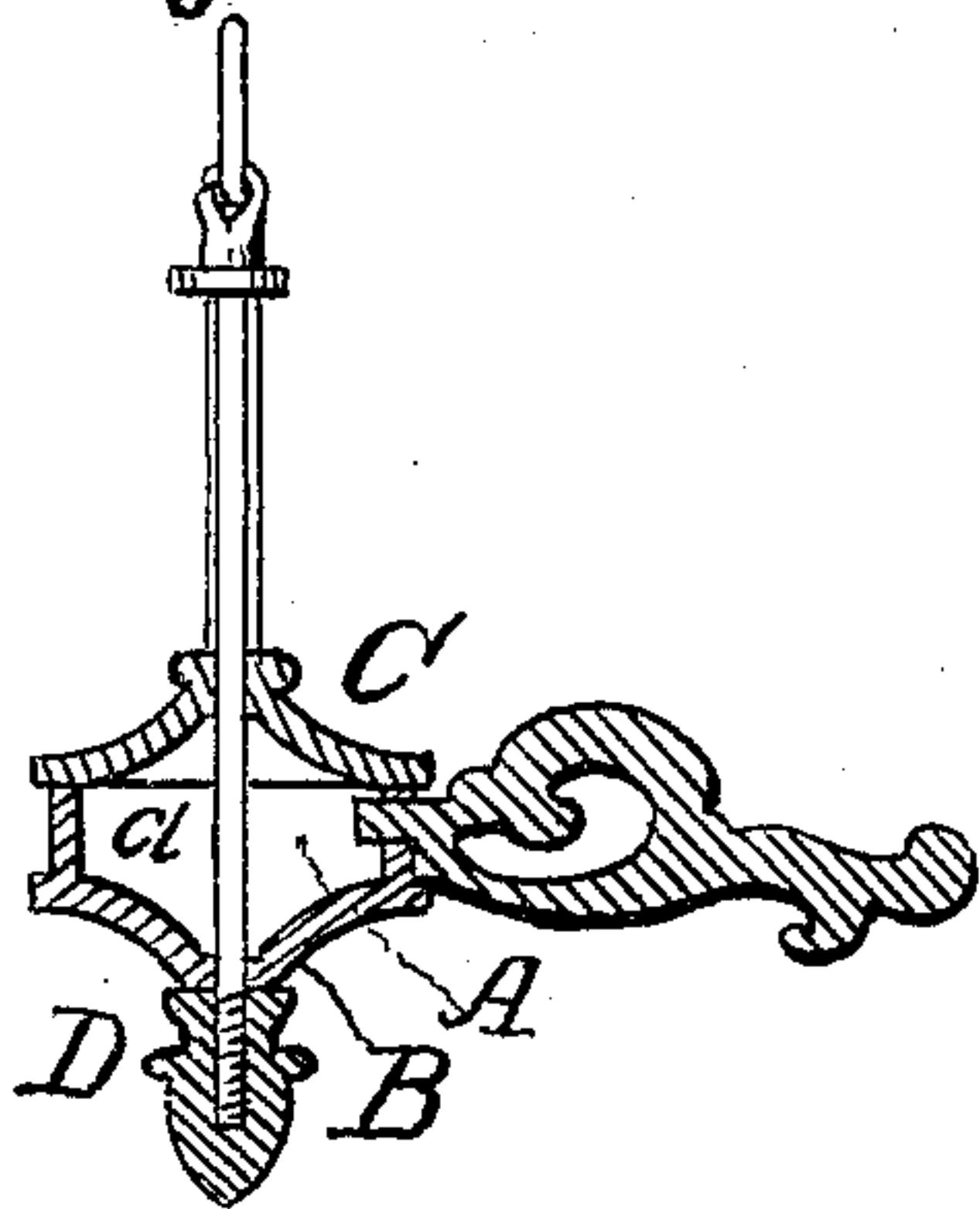


Fig. 3.

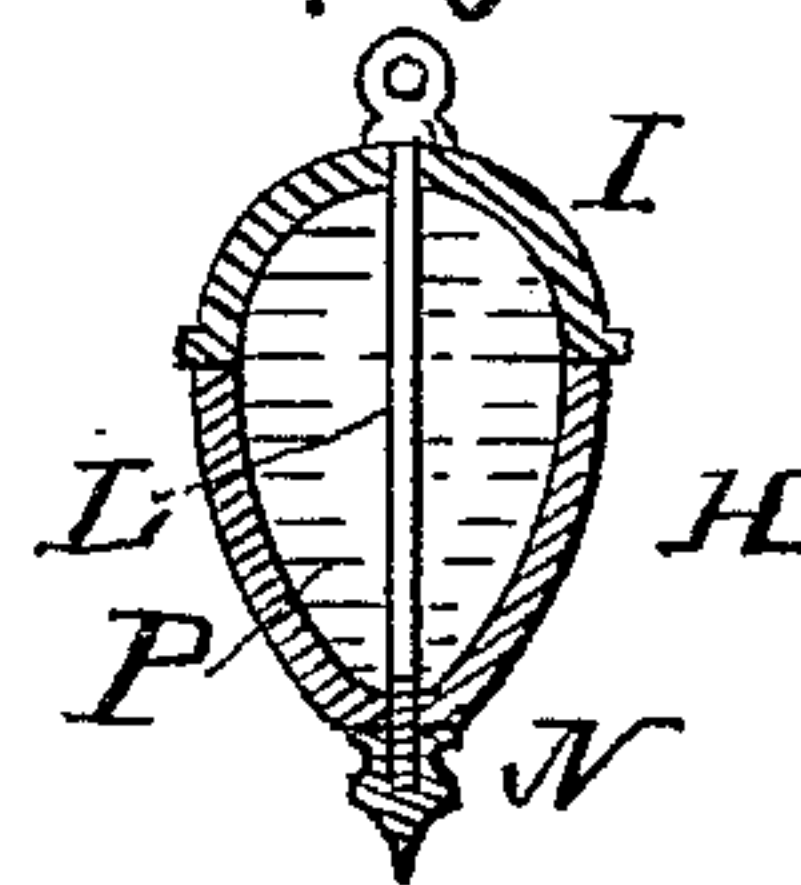
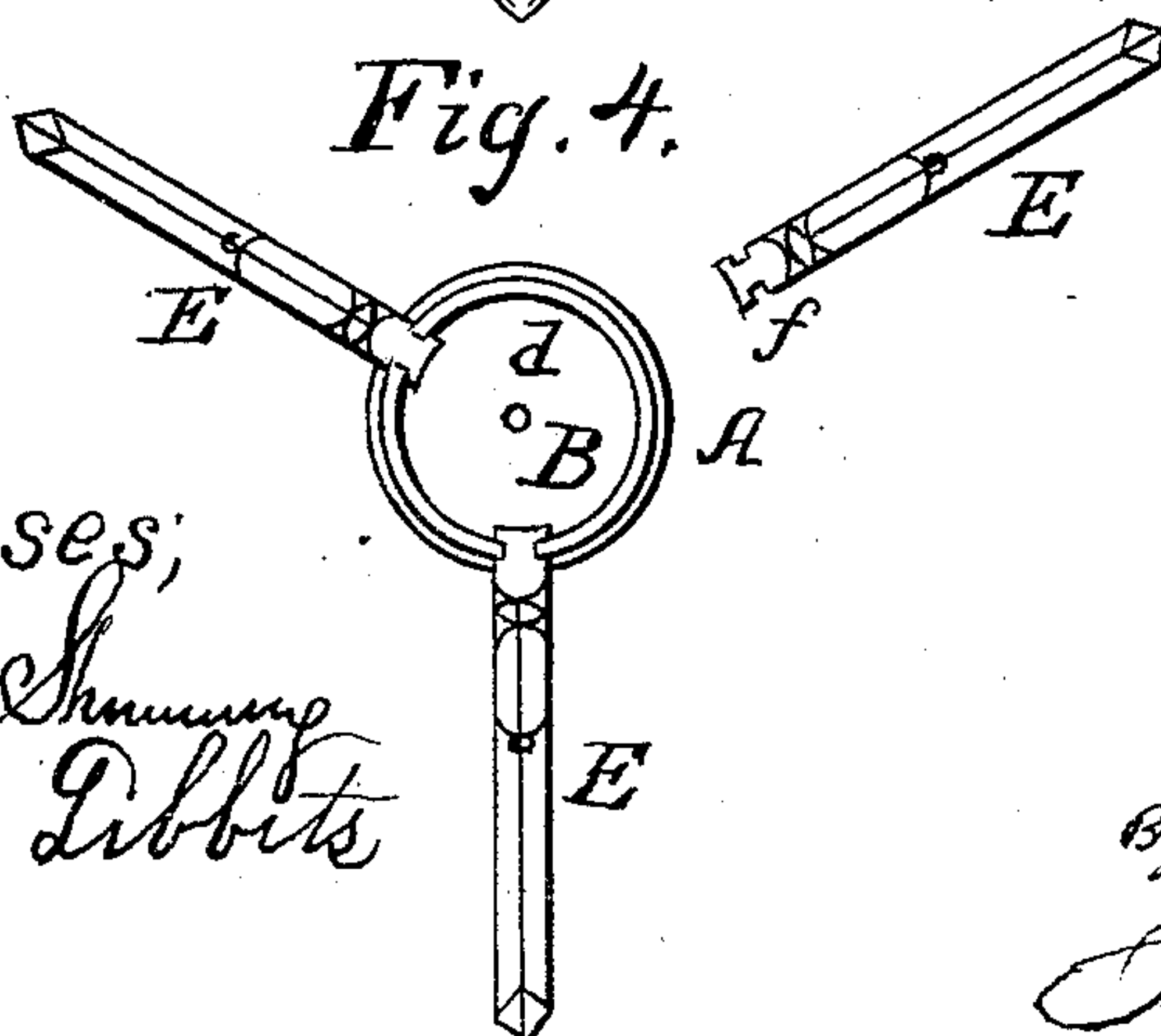


Fig. 4.



Witnesses;

J. H. Shumway
A. J. Libbitts

John A. Evarts

Inventor

By his Attorney

John E. Earle

United States Patent Office.

JOHN A. EVARTS, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO BRADLEY & HUBBARD, OF SAME PLACE.

Letters Patent No. 78,365, dated May 26, 1868.

IMPROVEMENT IN CHANDELIERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN A. EVARTS, of West Meriden, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Chandeliers, and manner of suspending the same; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of a chandelier suspended;

Figure 2, a partial section of a chandelier.

Figure 3, a vertical section of the weights; and in

Figure 4, a detached view of the lower portion of the chandelier.

This invention relates more particularly to the construction of that class of chandeliers to which are attached lamps for burning oils, or other than gas, the object being to construct the chandelier so that it may be taken to pieces, packed, for transportation, into a small compass, and, when required, may be easily readjusted; also in an apparatus for suspending chandeliers, made adjustable, so that the same apparatus may be used for chandeliers of different weights. And the invention consists in constructing the base or body of the chandelier so that arms may be locked therein by bolting the parts of the body together; also in the construction of a hollow case, provided with a bolt passing through its centre, to hold the two parts of the case together, and so that, by the removal of one part, the weights may be placed within the case, to adjust to the proper weight for the chandelier.

To enable others to fully understand my invention, I will proceed to describe the same, as illustrated in the accompanying drawings.

A is the body of the chandelier, which consists of the lower part, B, with the flange A extending up therefrom, and over which a plate, C, is fitted, and so that a bolt, *a*, passed down through the plate C and part B, into the nut D, the said bolt being increased in size above the plate C, so as to form a shoulder thereon, the plate C will be firmly held down upon the upper edge of the flange A, as seen in fig. 2.

The flange A is provided, at the proper points, with notches *d* (see fig. 4,) to receive the shank of the arms E, the said arms being formed at their inner ends so as to lock into the notches *d* at *f*, as seen in fig. 4. The arms and notches are constructed so as to form a lock or dove-tail joint, so that, when pressed to a bearing, they will be firm in their position. Therefore, when the arms are placed into the notches in the flange, and the plate C firmly bolted thereon, the arms are securely held in position, and the whole chandelier is of the firmest possible construction.

If an even number of arms, as two, four, or six, are used, opposite arms may be formed in a single piece, and extend across through the flange A, they being formed at the centre so as to overlie each other, and set in the proper position. I think, however, the single arm to be the preferable manner of construction.

The upper end of the bolt or rod *a* is provided for suspension in any convenient manner; but for the adjustment of chandeliers of different heights, I arrange at the ceiling a base, F, into which I fix two or more arms G G, in like manner as the arms of the chandelier are fixed, as before described; and in the outer end of each of the arms G, I arrange a pulley, *b*, over which, from the chandelier, I extend cords or chains *c*; and to the end of each cord I attach a weight, constructed in the following manner, and as seen in fig. 3:

H is the lower part of a hollow case, and I the upper part, of any convenient form or design. Through the two parts I pass a bolt, L, into a nut, N, at the bottom, the upper end of the bolt being provided with a head, so as, by means of the nut N, to secure the two parts firmly together, and also provided with a convenient means of attachment to the end of the cord *c*.

To adjust the weights so as to balance the chandelier, remove the upper part, I, and place within the case one or more of the weights P, as seen in fig. 3, the said weights being constructed so as to conform, from the

lower end of the case upward, to the shape of the case. The requisite number of these weights having been placed within the case, replace the cap and bolt the parts together, as before described.

I do not wish to be understood as broadly claiming the arrangement of the pulleys above the chandelier, over which weights are suspended, as such I know to be old; but

What I do claim as new and useful, and desire to secure by Letters Patent, is—

1. The flange A, combined with the parts B and C, and constructed so as to receive and hold the arms E, substantially in the manner described.
2. The arrangement of the pulleys b upon their arms G, when the said arms are secured in the base, F, substantially in the manner and for the purpose set forth.
3. The weight, consisting of the two parts of the case, H and I, secured together by the bolt L and nut N, and provided with adjusting-weights P, substantially in the manner herein set forth.

JOHN A. EVARTS.

Witnesses:

ELI BOOTH,
RATCLIFFE HICKS.