

(No Model.)

P. BACHER.
BILLIARD TABLE LEVELER.

No. 356,816.

Patented Feb. 1, 1887.

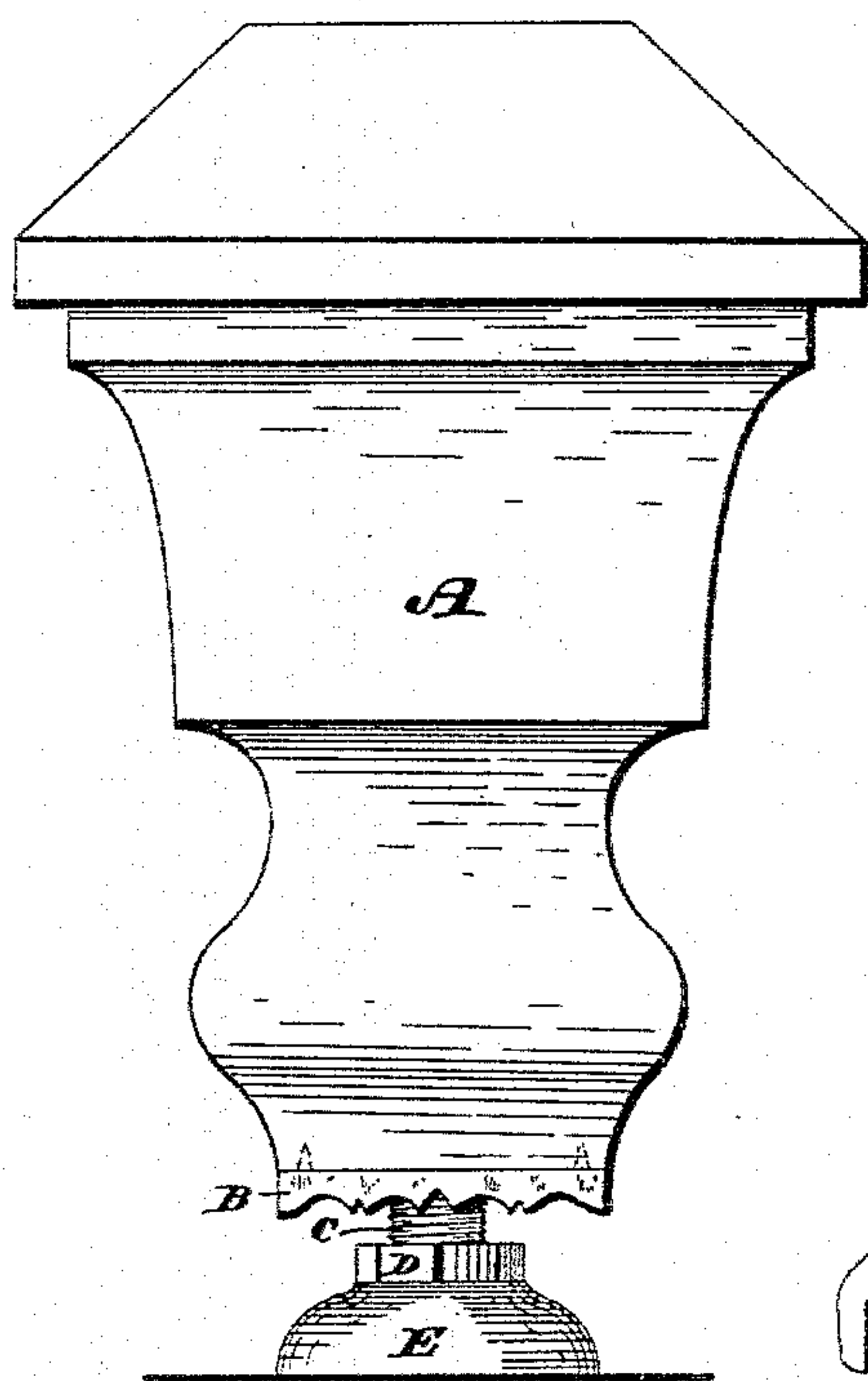


Fig. 1.

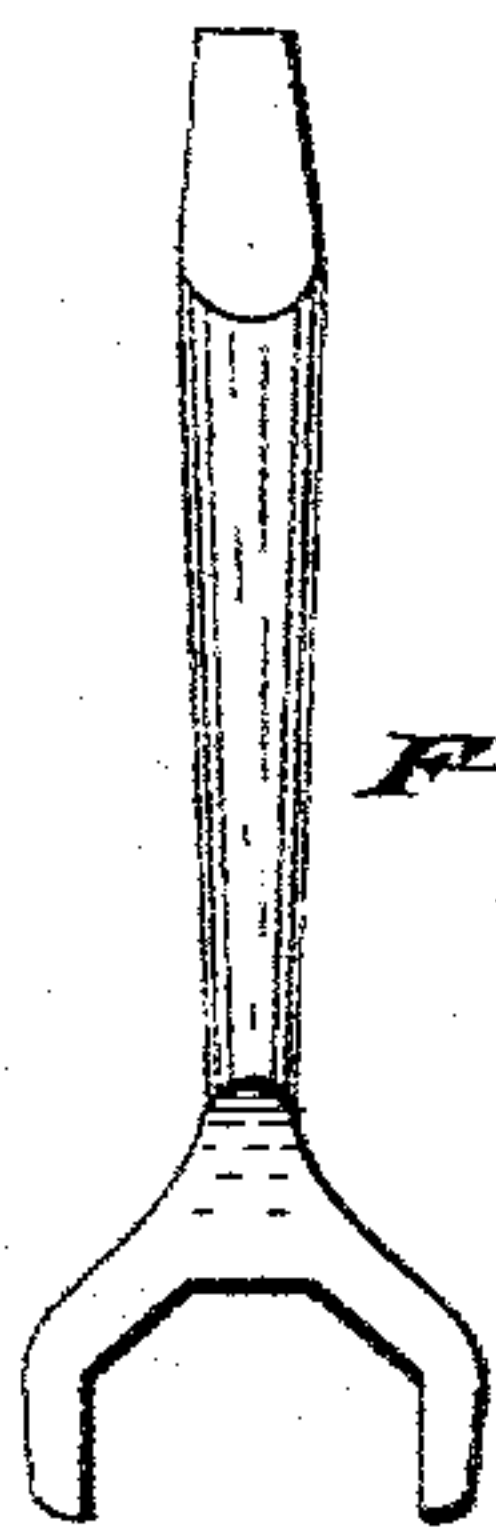


Fig. 4.

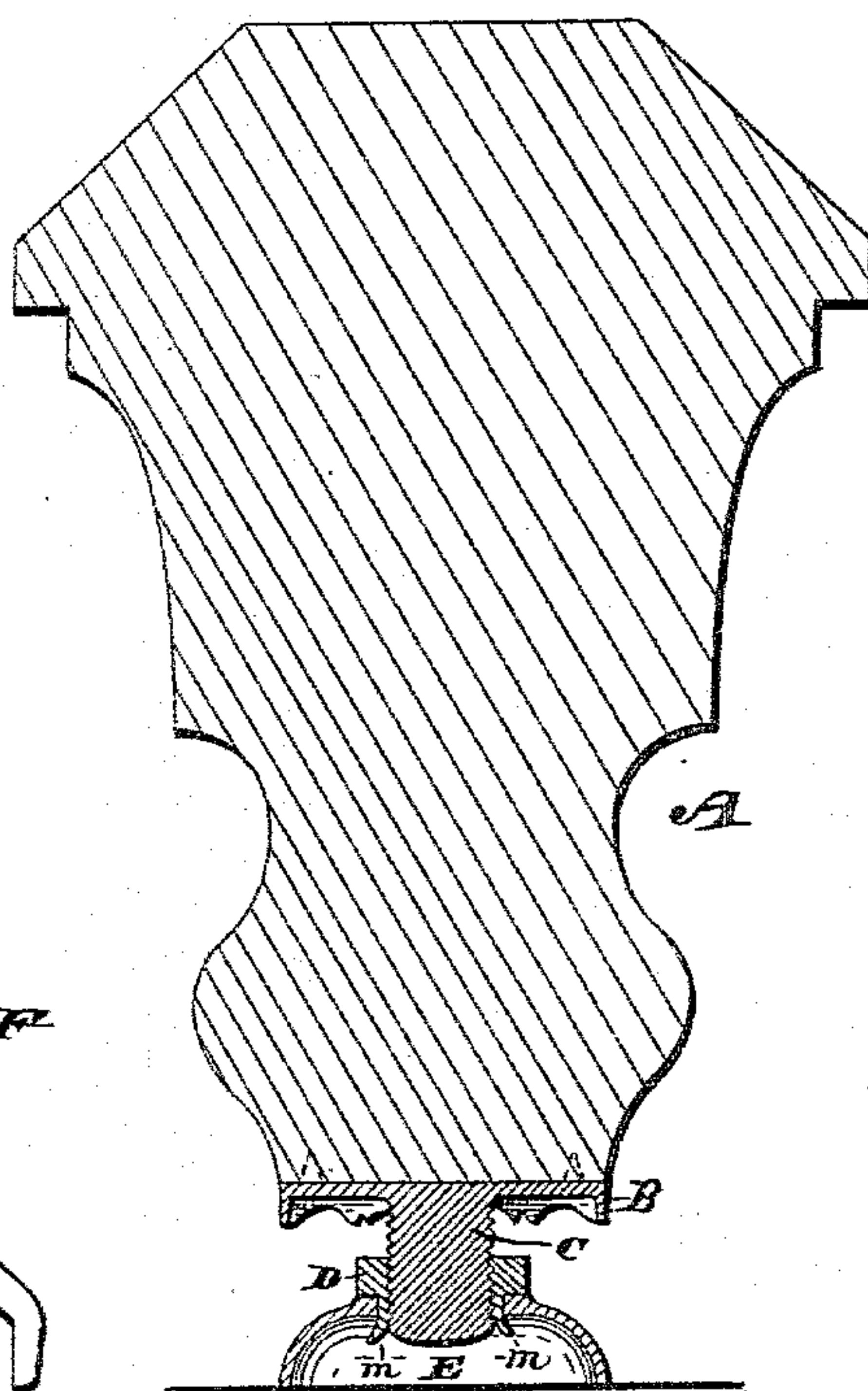


Fig. 2.

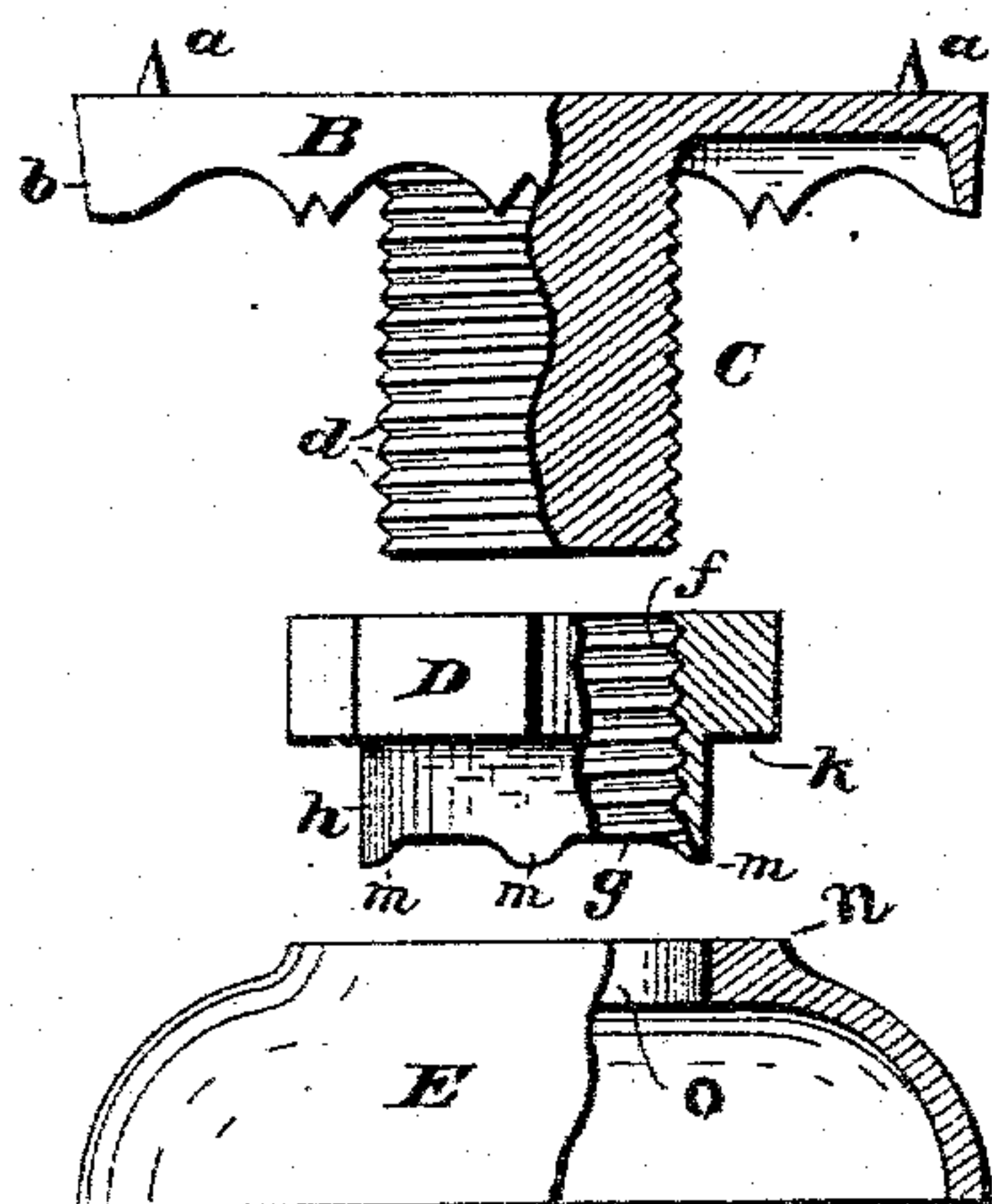


Fig. 3.

WITNESSES:

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BILLIARD-TABLE LEVELER.

SPECIFICATION forming part of Letters Patent No. 356,816, dated February 1, 1887.

Application filed October 14, 1886. Serial No. 216,250. (No model.)

To all whom it may concern:

Be it known that I, PETER BACHER, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have
5 invented a new and useful Improvement in Billiard-Table Levelers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

10 My invention relates to improvements in billiard-table levelers; and it consists of the hereinafter-described means by which the table may be adjusted.

15 My invention also relates to the detail and combination of parts, as described, and set forth in the claims.

Figure 1 is an elevation of a billiard-table leg, showing the leveler applied thereto. Fig. 2 is a sectional view of same. Fig. 3 is a view,
20 partly sectional, comprising the three sections of my improved leveler detached and enlarged, which will be lettered and explained hereinafter. Fig. 4 is a view of a wrench by which the leveler may be operated.

25 Similar letters of reference indicate corresponding parts in all of the figures of the drawings.

Letter A, Fig. 1, represents a billiard table leg having my improvement attached thereto.
30 The plate B, on which the table-leg rests, is provided with spurs *a*, which penetrate the wood to prevent the leg from moving on the plate. There is also a downwardly-projecting flange, *b*, as a means of strengthening the plate B as
35 well as for ornamentation. From the center of said plate B there is a downwardly-projected hub, C, having an annular peripheral screw-thread, *d*. The nut D is provided with a central perforation, *f*, in which there is a thread, *g*,
40 adapted to the thread *d* on hub C, and about which the nut D may be rotated, as hereinafter explained. The said nut is also provided with a downwardly-projected neck, *h*, which is formed by cutting away the metal from the
45 lower section of the nut D, as shown, and by which operation is also formed the shoulder *k*. The lower end of the neck *h* is provided with clinch-fingers *m*, hereinafter explained.

The base or bottom piece, E, may be semi-spheroidal in form, concaved on its under side, 50 as shown, and having on its upper side a face, *n*, and a perforation, *o*, which are adapted to the neck *h* and shoulder *k* of the nut D, the neck of the said nut having been passed through the perforation *o*. The clinch-fingers *m* may
55 be turned back on the under side of piece E, as shown in Fig. 2. The nut D, with the bottom piece, E, attached, may be turned onto the threaded hub C, as shown in Figs. 1 and 2, which completes the construction. 60

The several parts mentioned may be made of any suitable metal, preferably of brass or malleable iron.

The operation is as follows: Place the leveler under the leg of the table, the points *a* 65 penetrating the wood, the plate E resting on the floor. Turn the nut D with the wrench F, Fig. 4, moving it up or down on the hub C, as may be required to level the top of the table.

Having thus fully described the nature and 70 operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the plate B, having the downwardly-projecting threaded hub, 75 of the nut having a peripheral shoulder and a series of clinch fingers or projections, *m*, and the base-plate adapted to receive the nut and provided with a bearing-surface for the peripheral shoulder of the nut, substantially as 80 set forth.

2. The combination, with the plate B, having a depending screw-threaded hub, of a base-plate having a central opening and a nut adapted to receive the screw-threaded hub of 85 the plate B, the said nut having a neck adapted to enter the opening in the base-plate and a shoulder adapted to rest on the top of said base plate, substantially as set forth.

In testimony whereof I have hereunto set my 90 hand this 11th day of October, A. D. 1886.

PETER BACHER.

Witnesses:

CHAS. R. MILLER,
W. K. MILLER.