

(No Model.)

C. W. KIMBALL.

THUMB NUT WRENCH.

No. 397,988.

Patented Feb. 19, 1889.

Fig. 1.

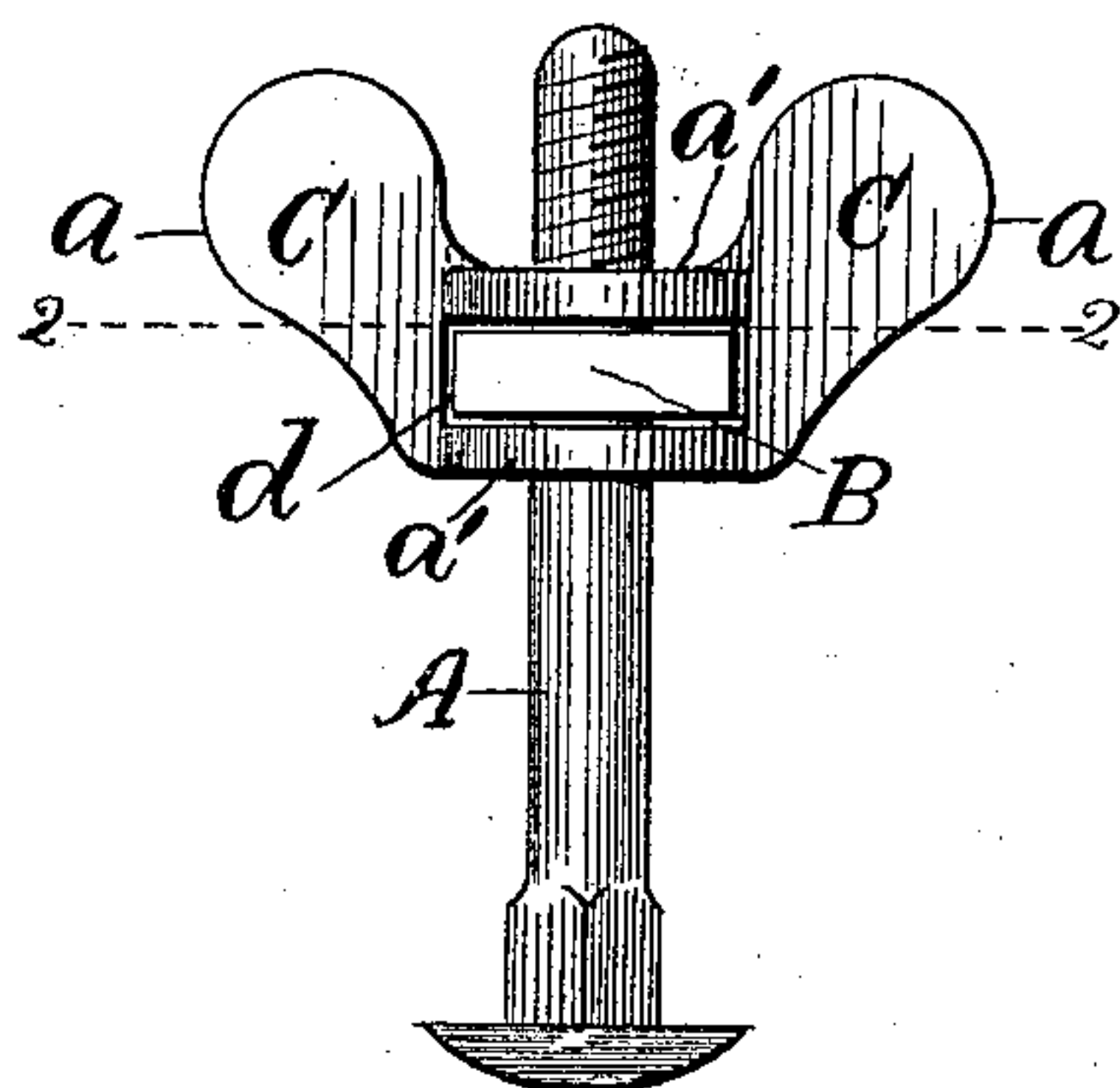


Fig. 2.

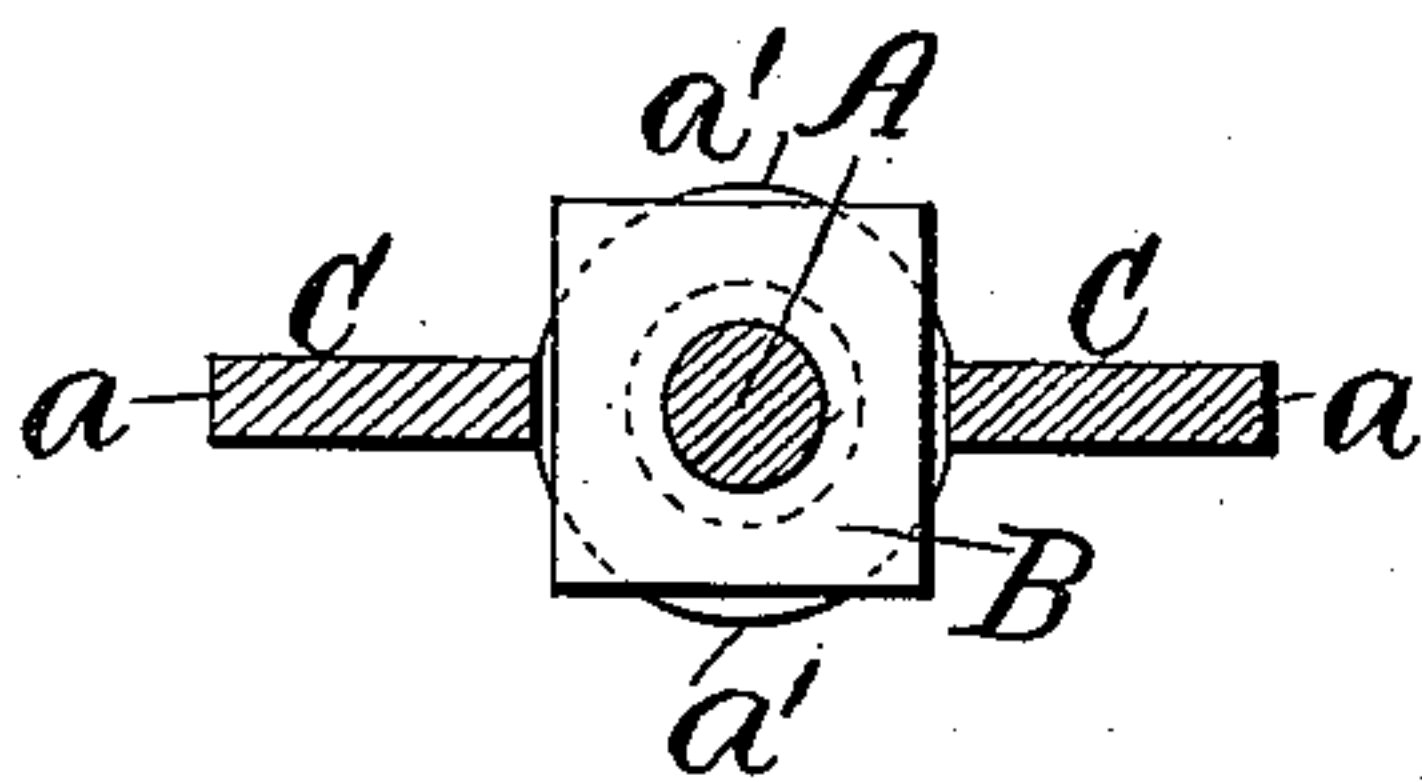
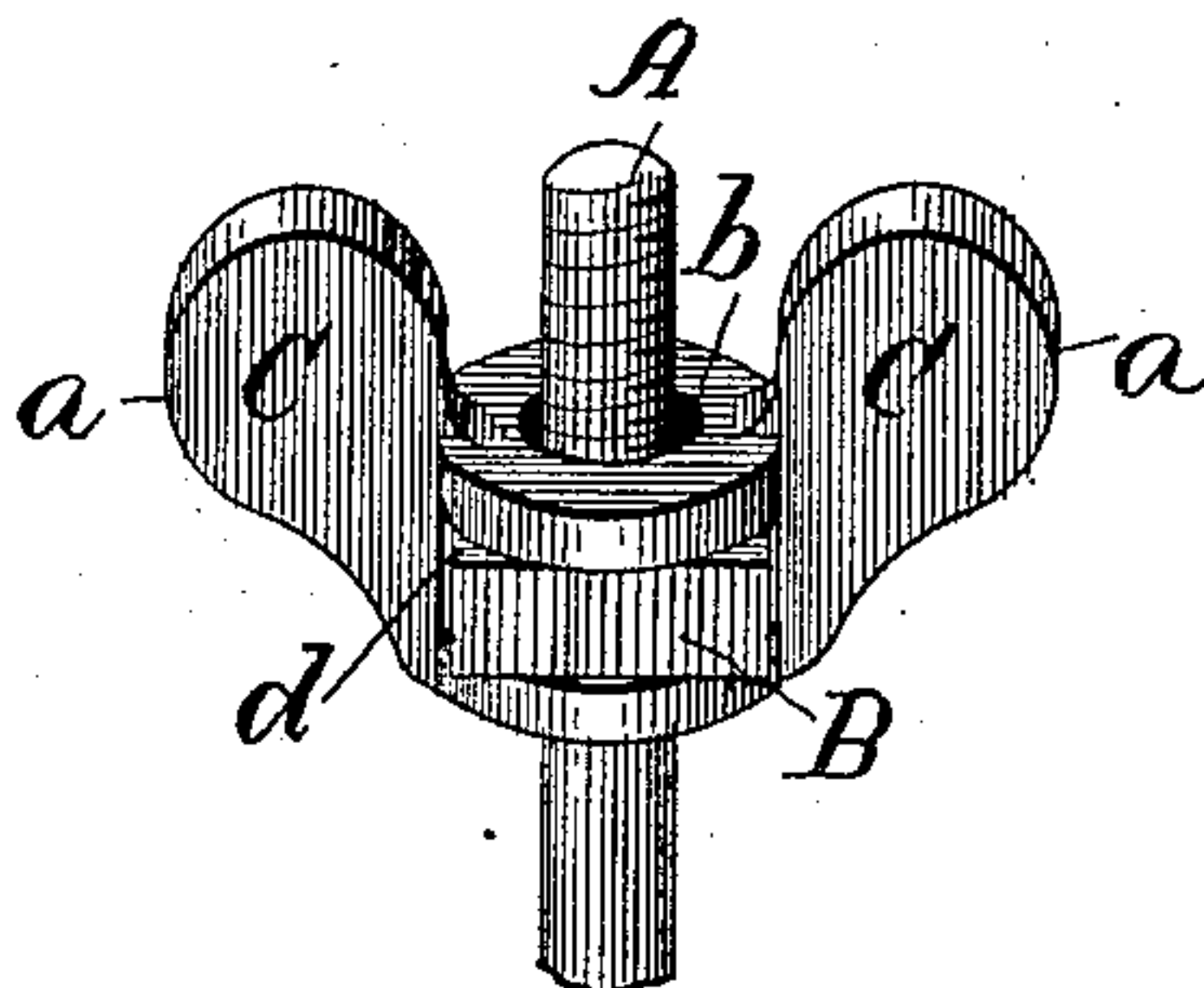


Fig. 3.



Witnesses:
Ed. Gaylord
L. M. Freeman

Inventor:
Chas. W. Kimball
By *L. B. Coupland* & Co.
Attys

UNITED STATES PATENT OFFICE.

CHARLES W. KIMBALL, OF CHICAGO, ILLINOIS.

THUMB-NUT WRENCH.

SPECIFICATION forming part of Letters Patent No. 397,988, dated February 19, 1889.

Application filed June 5, 1888. Serial No. 276,134. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. KIMBALL, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Thumb-Nut Wrenches, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

The object of this invention is to provide a false thumb-nut which may be placed permanently upon any ordinary threaded bolt and accompanying nut, and used as a wrench in manipulating the threaded nut.

Figure 1 is an elevation of a screw-threaded bolt and nut embodying my improved feature; Fig. 2, a horizontal section of the same in the plane 2, Fig. 1; and Fig. 3, a perspective of the same.

Referring to the drawings, A represents an ordinary screw-threaded bolt, B the usual nut having a threaded engagement with the same, and C a false or blank thumb-nut.

The false thumb-nut is of the ordinary design, consisting of the wings *a a* and the central body or blank-nut, *a'*. In this case the thumb-nut is not threaded, but is provided with the usual perforation, *b*, and loosely engages with the bolt, as shown in Fig. 3.

The body of the thumb-nut is provided with the rectangular aperture *d*, opening in from the two sides at right angles to the wings *a a*, so that the threaded nut may be loosely and removably inserted from either side. This construction permits of a number of different-sized nuts being used with the same wrench-nut, as they need not fit closely, and the nut

and thumb-nut are easily separated when not required to be used together.

In operation the threaded nut is first inserted in the body of the thumb-nut and then both are placed upon the bolt, the thumb-nut serving as a wrench to tighten or loosen the threaded nut. This arrangement is especially useful and convenient on carriage-bolts and bolts of different kinds. It dispenses with the use of a wrench and causes a large saving in the manufacture, as the false thumb-nut and the real nut do not cost as much as a threaded thumb-nut would alone.

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

1. A false or blank thumb-nut provided with a rectangular aperture opening in from the two sides at right angles to the wings for the loose insertion therein of a screw-threaded nut from either side, substantially as set forth.

2. A false or blank thumb-nut consisting of the wings *a a* and the body *a'*, said body being provided with an aperture extending through from side to side and adapted to loosely retain a screw-threaded nut therein, substantially as and for the purpose set forth.

3. A false or blank thumb-nut provided with a rectangular opening extending through from side to side, in combination with a screw-threaded nut, whereby the threaded nut may be loosely inserted and removably retained in said thumb-nut, substantially as and for the purpose set forth.

CHARLES W. KIMBALL

Witnesses:

L. M. FREEMAN,
L. B. COUPLAND.