

(No Model.)

C. J. GRELLNER.  
Hammer.

No. 241,647.

Patented May 17, 1881.

Fig. 1.

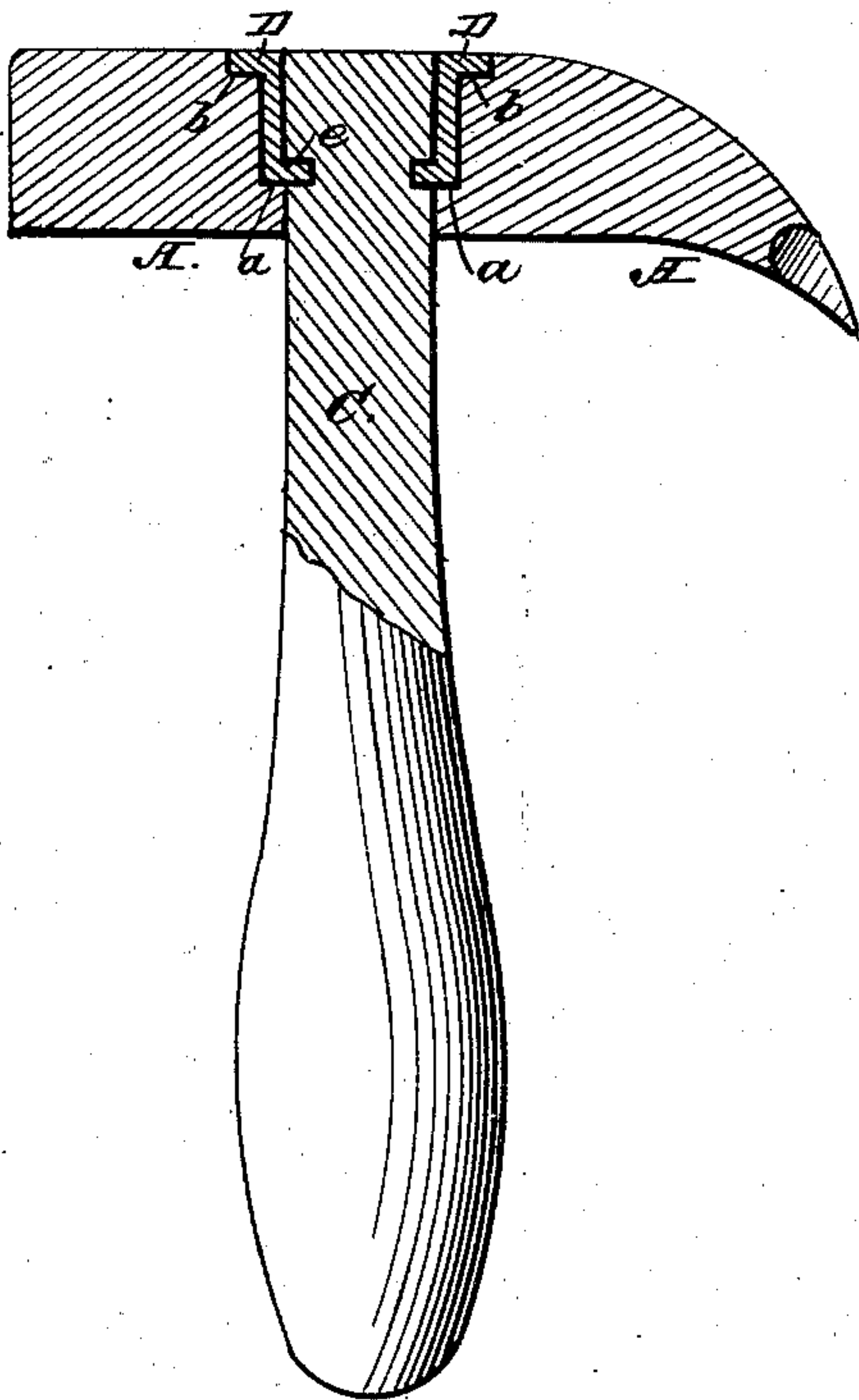


Fig. 2.

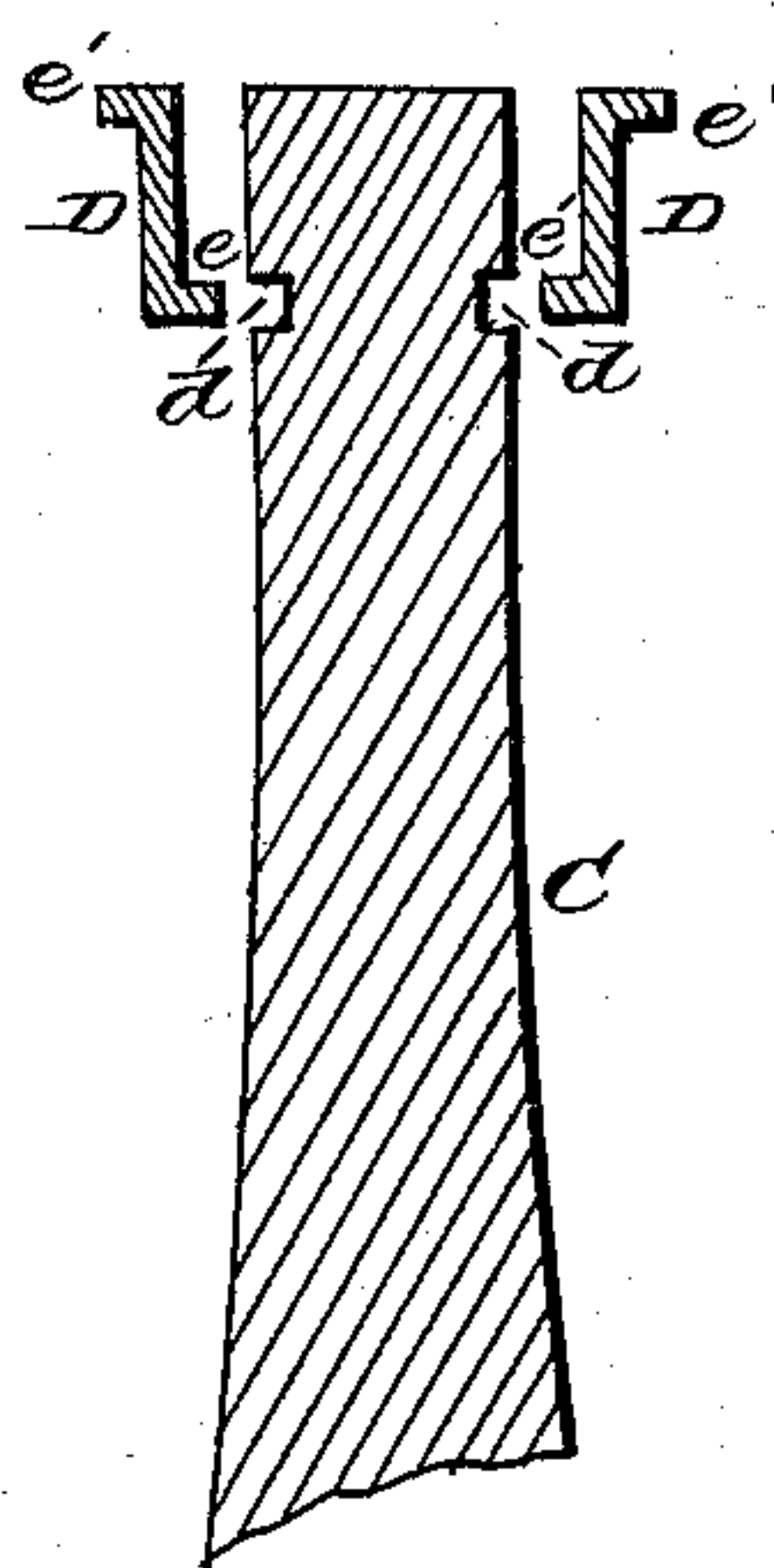
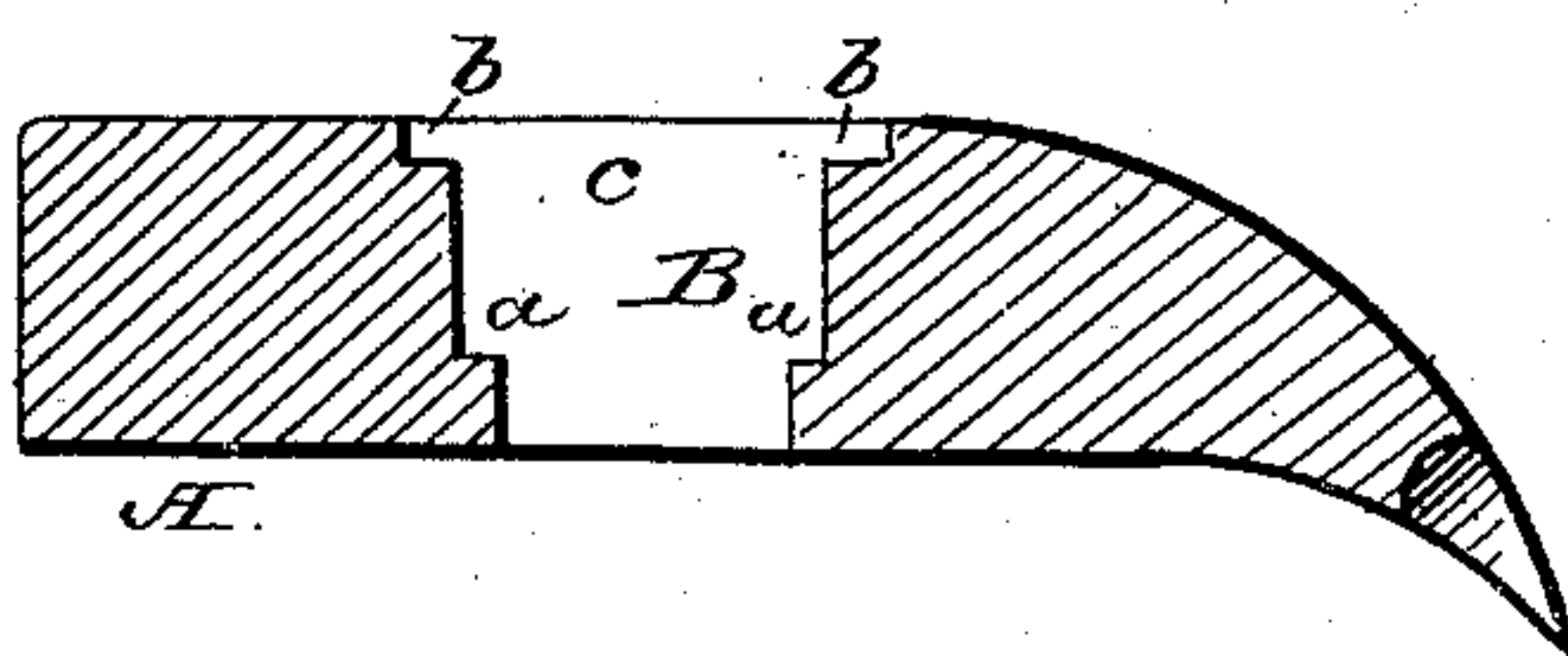


Fig. 3.



WITNESSES

Wm. L. Duterich  
A. H. Krouse

INVENTOR

By his Attorneys Christopher J. Grellner  
Louis Bagger & Co.

# UNITED STATES PATENT OFFICE.

CHRISTOPHER J. GRELLNER, OF ST. LOUIS, MISSOURI.

## HAMMER.

SPECIFICATION forming part of Letters Patent No. 241,647, dated May 17, 1881.

Application filed March 10, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTOPHER J. GRELLNER, of St. Louis, in the county of St. Louis and State of Missouri, have invented certain  
5 new and useful Improvements in Hammers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the  
10 same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal section of a hammer embodying my improvement. Fig. 2 is a  
15 similar section of the hammer-head detached, and Fig. 3 is a detail view, in section, of the upper end of the handle with its holding-plates detached.

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

My invention has relation to means for fastening a hammer-head upon its handle; and it consists in the combination, with a peculiarly-recessed head and notched or slotted handle,  
25 of a pair of holding-plates which lock the head in place upon its handle, so as to prevent it from flying off or working loose, substantially as hereinafter more fully set forth.

In the annexed drawings, A represents the  
30 hammer-head, which may be of any desired size and shape, and has an aperture or eye, B, for the insertion of the handle. This aperture has on opposite sides two steps or shoulders, (shown at *a* and *b*,) forming an enlarged recess  
35 or opening, *c*, at the top.

C is the handle, the upper end of which has two notches or incisions, *d d*.

D and D are the holding-plates, which are bent, as clearly shown in the drawings, to form projections *e e'* at opposite ends and sides. 40  
The lower one of these projects into its appropriate notch *d* in the handle, the upper projection resting in the enlarged recess *c* upon the uppermost shoulder, *b*, of the eye or aperture B.

The hammer-head is put upon its handle by 45  
first inserting the latter through the eye, then the plates D D are put on the end of handle, after which this is pulled back through the eye until the projections *e' e'* are flush with the top of the hammer-head. 50

It is obvious that this improvement is also applicable to axes, hatchets, mallets, and all other tools of a like character.

Having thus described my invention, I claim and desire to secure by Letters Patent of the 55  
United States—

1. A hammer-head the eye B of which is made with shoulders or offsets *a b* on opposite sides, forming an enlarged aperture, *c*, at top, as set forth. 60

2. The combination of the hammer-head A, having eye B, provided with the offsets *a b* and enlargement *c*, handle C, having notches or incisions *d d*, and holding-plates D D bent to form the projections *e e'*, substantially as and 65  
for the purpose herein shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

CHRISTOPHER JOS. GRELLNER.

Witnesses:

JOS. W. PETERSEN,  
E. H. KALKMAN.