

No. 760,332.

PATENTED MAY 17, 1904.

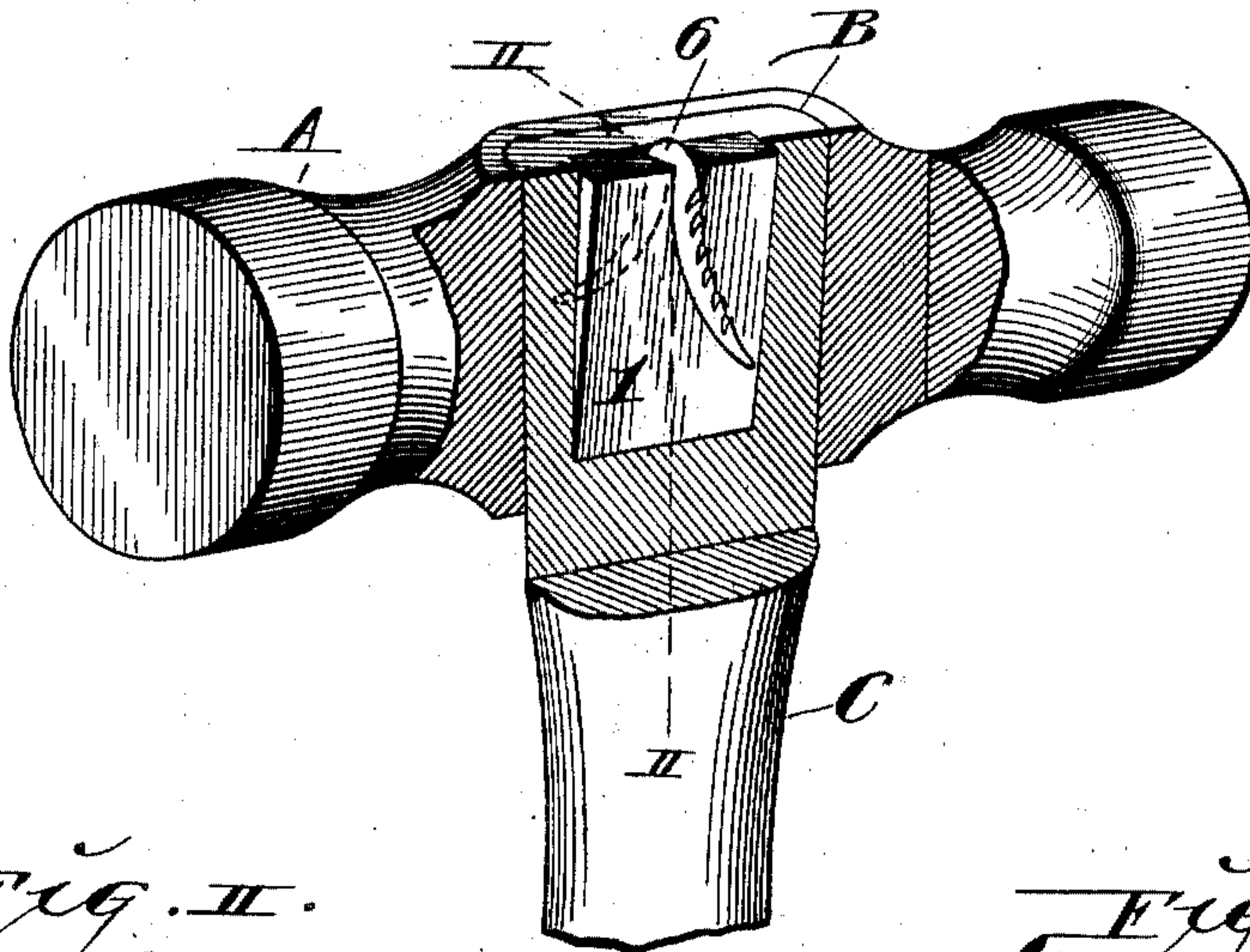
C. J. GRELLNER.

WEDGE.

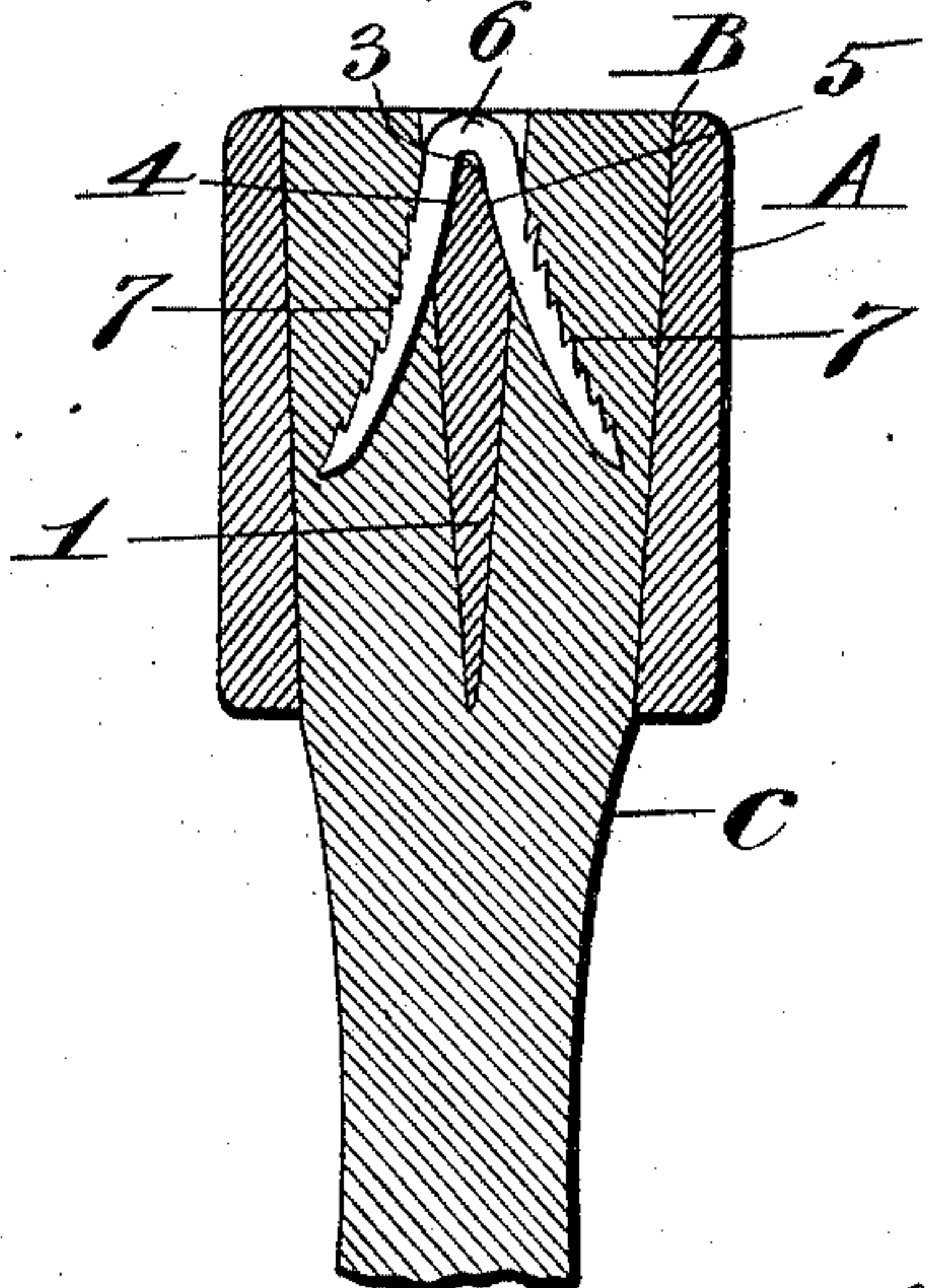
APPLICATION FILED SEPT. 24, 1903.

NO MODEL.

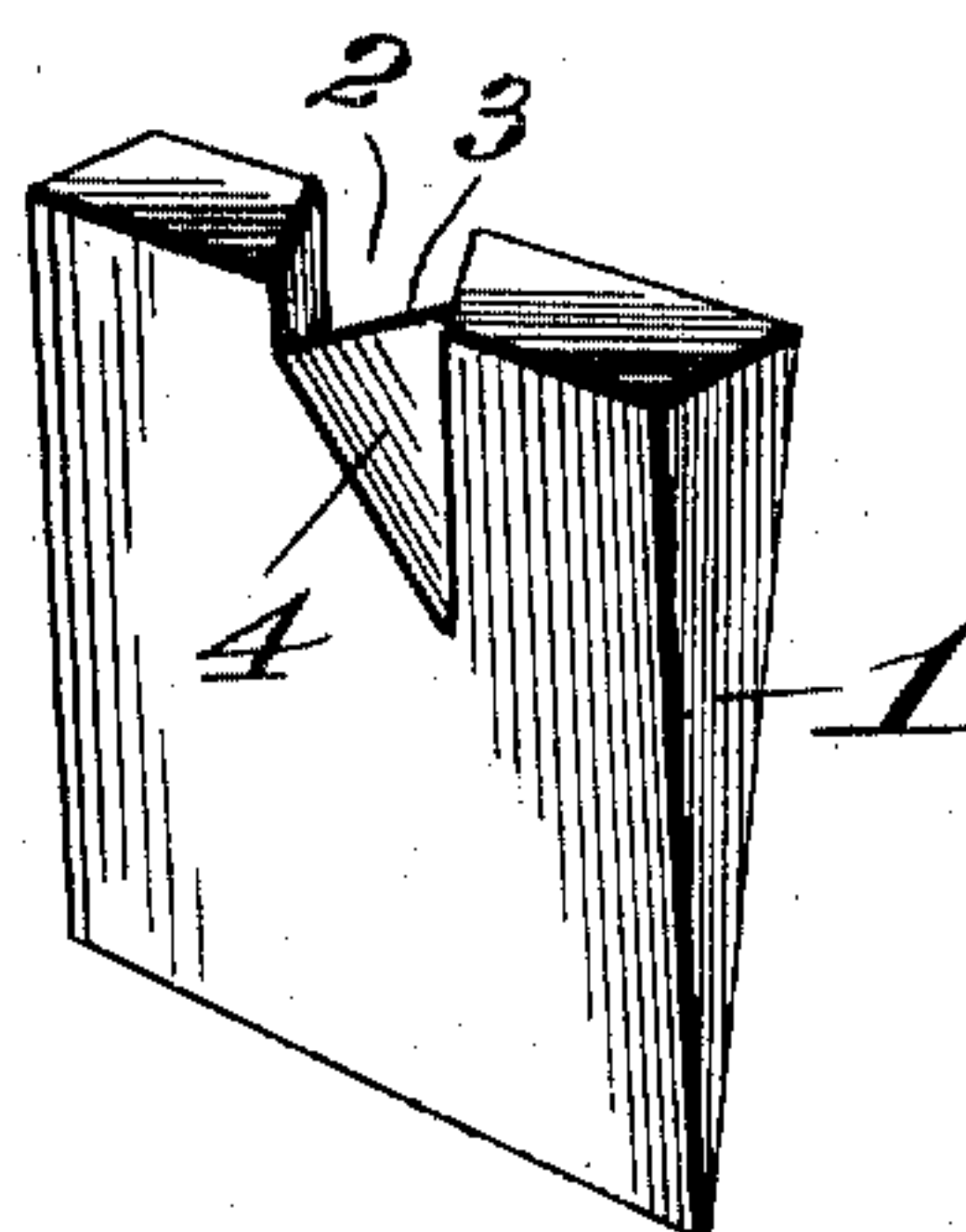
*Fig. I.*



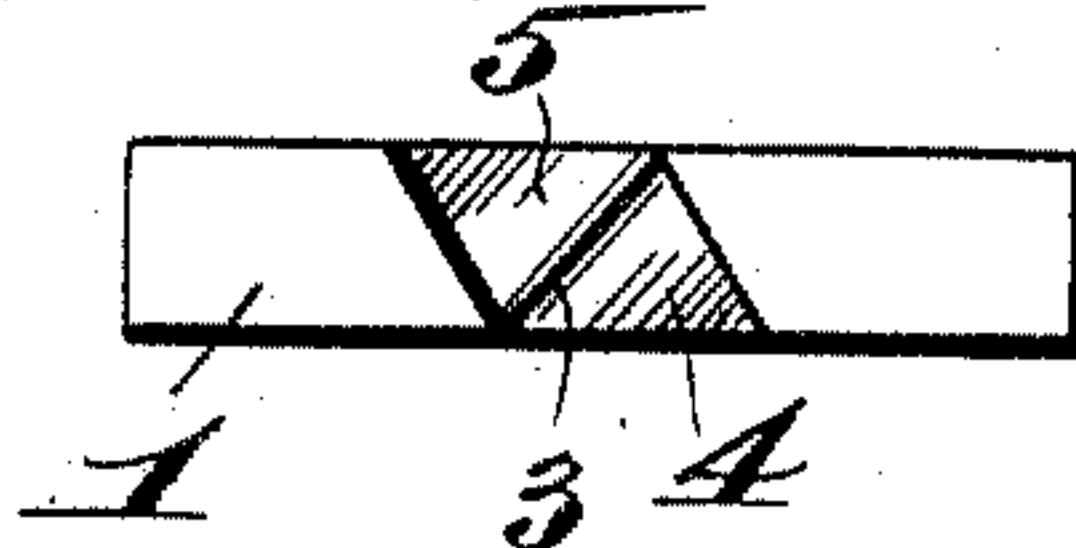
*Fig. II.*



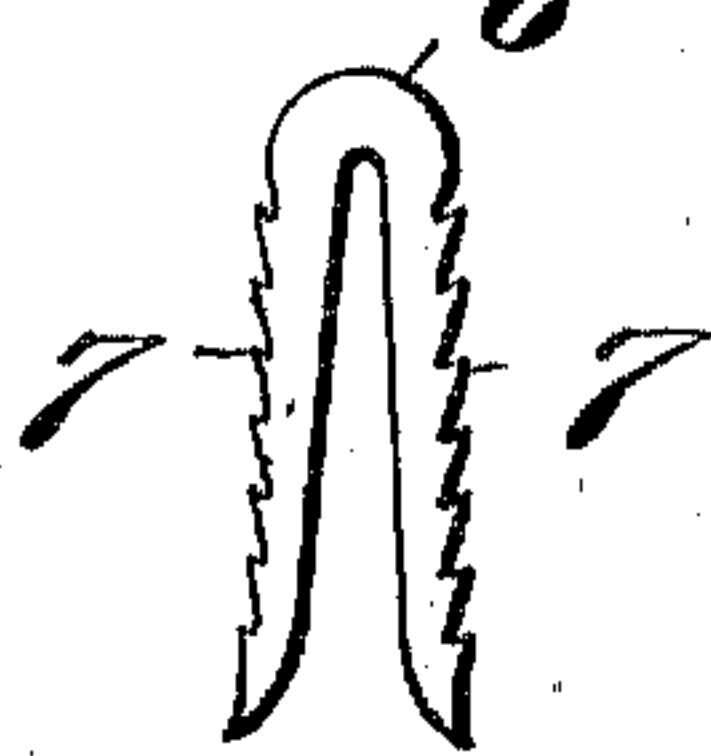
*Fig. III.*



*Fig. IV.*



*Fig. V.*



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# UNITED STATES PATENT OFFICE.

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## WEDGE.

SPECIFICATION forming part of Letters Patent No. 760,332, dated May 17, 1904.

Application filed September 24, 1903. Serial No. 174,391. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTOPHER J. GRELLNER, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Wedges, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a wedge for securing hammers or other tools to their handles and also of utility in fastening any article provided with an eye to a part which receives it.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a section of a hammer with my wedge shown positioned therein. Fig. II is a section taken on line II II, Fig. I. Fig. III is a perspective view of my wedge proper. Fig. IV is a view of the outer end of my wedge proper. Fig. V is a side view of the staple by which the wedge proper is retained in the member into which it is driven.

I have shown my wedge applied to a hammer, of which A designates the hammer-head, having an eye B, that receives the handle C.

1 designates the wedge proper, which is tapered from its outer end or butt to its point. In the butt of the wedge is a notch 2, that extends transversely thereacross. Within said notch the body of the wedge is cut away in offset positions at opposite sides of the wedge to furnish a diagonal web 3, that at one side of the wedge affords a downwardly-sloping face 4, extending in one angle, and at the opposite side of the wedge furnishes a downwardly-sloping face 5, extending diversely from the sloping face 4, as seen in Fig. IV.

6 designates a staple that is designed to be driven into the handle of a tool or other article to which the wedge is applied. The arms of said staple are preferably furnished with a series of teeth or serrations 7.

In the practical use of my wedge the wedge proper is first driven into the article prepared to receive it and the notch in said wedge being in the butt thereof remains exposed to receive the staple 6. The arms of the staple are then entered into the notch 2, so as to straddle the diagonal web 3, with one arm of the staple bearing against the sloping face 4

of said web and the other staple-arms bearing against the sloping face of the web. The staple is then driven home and as its arms descend the sloping faces 4 and 5 they are directed by said faces at a tangent to the sides of the wedge proper, as illustrated in Fig. I, thereby causing said arms to curve outwardly into the body into which they are forced and at the same time take a tangential course to the planes of the sides of the wedge proper, whereby they are embedded in their tangential positions in a manner to effectually prevent the dislodgment of the wedge.

A very important characteristic of my wedge made with the diagonally-disposed web of the wedge proper which furnishes the sloping angular faces in the notch is that of causing the arms of the retaining-staple to take courses outwardly and at the same time in directions approximately corresponding to the planes of the sides of the wedge proper instead of directly outwardly at right angles to such planes. By this means the wedge is rendered particularly adaptable for use in connection with tools or other articles having narrow eyes, and consequently narrow handles fitted into said eyes in which there is limited body into which the retaining-staple of the wedge may be driven.

I claim as my invention—

1. In a wedge of the character described, the combination of a wedge proper provided with a notch and having a diagonally-disposed web at the location of said notch with sloping faces, and a staple to be driven onto said diagonal web whereby its arms will be projected outwardly and at tangents to the sides of the wedge proper, substantially as set forth.

2. In a wedge of the character described, the combination of a wedge proper provided with a notch and having a diagonally-disposed web at the location of said notch with sloping faces, and a staple to be driven onto said diagonal web whereby its arms will be projected outwardly and at tangents to the sides of the wedge proper, the arms of said staple being serrated, substantially as set forth.

CHRISTOPHER J. GRELLNER.

In presence of—

NELLIE V. ALEXANDER,  
E. S. KNIGHT.