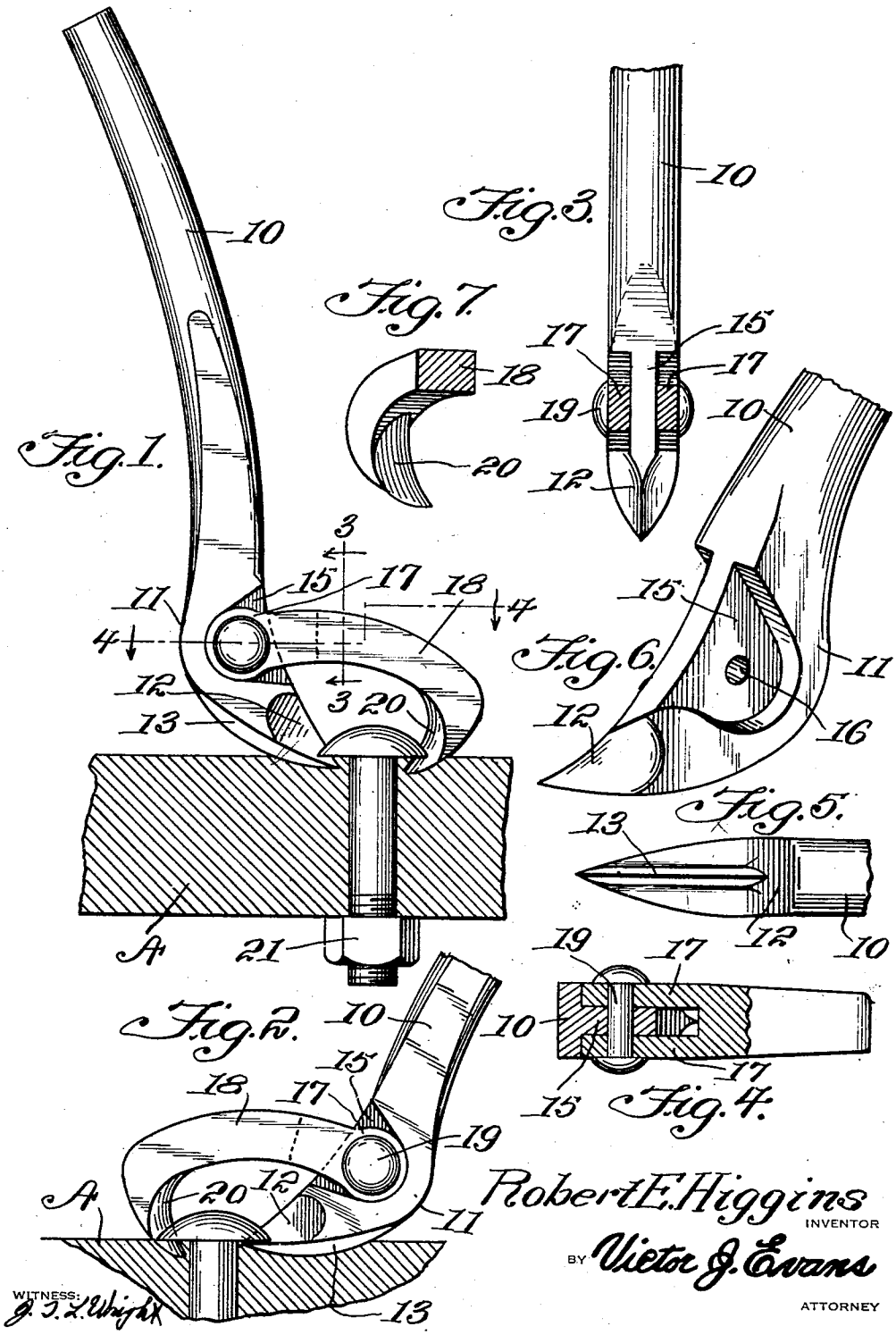
April 9, 1929. R. E. HIGGINS 1,708,760

TOOL

Filed Sept. 10, 1927



Patented Apr. 9, 1929. 1,708,760

UNITED STATES PATENT OFFICE.

ROBERT E. HIGGINS, OF BLUNT, SOUTH DAKOTA.

TOOL.

Application filed September 10, 1927. Serial No. 218,705.

This invention contemplates the provision of a tool designed to facilitate the removal of round headed bolts from wooden parts of machinery or the like, and embodies amongst other features, a lever having associated therewith a pivotally mounted hook, with the lever and hook peculiarly designed to bite into the material through which the bolt is passed, and effectively engage the head of the bolt to hold the latter while the nut is being removed therefrom.

The nature and advantages of the invention will be better understood when the following detail description is read in connection with the accompanying drawing, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawing forming part of this application like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a side elevation of the tool showing how it is used for the purpose intended.

Figure 2 is a similar fragmentary view showing how the foot of the lever bites into the material through which the bolt is passed, incident to the use of the tool.

Figure 3 is a sectional view on line 3—3 of Figure 1.

Figure 4 is a sectional view on line 4—4 of Figure 1.

Figure 5 is a fragmentary bottom plan view of the lever.

Figure 6 is an enlarged fragmentary view of the lever.

Figure 7 is a fragmentary sectional view of the hook.

Referring to the drawing in detail 10 indicates a lever, the lower end of which is curved as at 11 and terminates to provide a pointed substantially chisel-like edge 12. The heel or curved portion 11 is also formed with a rib 13 having a sharp edge to bite into the material through which the bolt is passed, incident to the use of the tool in a manner to be hereinafter described. Directly above the heel the lever is cut away to provide a web 15 having a transverse opening 16, this web being straddled by the bifurcated portion 17 of a hook 18, a pivot bolt 19 being passed through the bifurcated portion and opening 16 of the web, thereby supporting the hook for pivotal movement upon the lever 10. This hook also terminates to provide a pointed cutting edge 20, which of course is carried by the under side of the hook and arranged in confronting relation to the chisel-like edge 12 of the lever, in that it cooperates with the latter to effectively engage the head of the bolt to hold the latter stationary while the nut 21 is being removed by a suitable tool.

In practice the lever and hook are arranged upon the material A through which the bolt is passed, with the chisel-like edge 12 of the lever, and the cutting edge 20 of the hook disposed at opposite sides of the head, and slightly embedded in the material A. When pressure is exerted upon the lever 10, the latter is slightly rocked upon the heel portion thereof, forcing the rib 13 into the material A to prevent slipping or turning of the tool with relation to the bolt. At the same time the chisel-like edge 12 of the lever and the cutting edge 20 of the hook effectively engage the head of the bolt, biting into the latter, to hold the bolt fixed while a wrench or other suitable tool is applied to the nut 21 with a view of removing the same from the bolt.

While it is believed that from the foregoing description, the nature and advantages of the invention will be readily apparent, I desire to have it understood, that I do not limit myself to what is herein shown and described and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What is claimed is:

A tool for facilitating the removal of round headed bolts, comprising a lever slightly curved longitudinally and having one end offset at approximately forty-five degrees, said end being curved and defining a heel portion including a centrally located beveled rib formed on the bottom thereof, a relatively sharp upper edge terminating in a point adapted to be forced in the material through which the bolt passes with the lever arranged vertically, and with said sharp edge

biting into the head of the bolt, a sharp edge rib formed on the heel to bite into the material as the heel portion is forced beneath the head of the bolt, a hook having a bifurcated portion straddling the lever and pivotally mounted thereon, and a curved extremity formed with a substantially V-shaped edge terminating in a point, the latter being adapted to bite into the material as the said edge bites into the head of the bolt at a point diametrically opposite the sharp edge of the heel portion.

In testimony whereof I affix my signature.

ROBERT E. HIGGINS.