J. H. HUHN.

HATCHET.

APPLICATION FILED AUG. 2, 1913.

1,118,010. Patented Nov. 24, 1914.

Fig. 1.

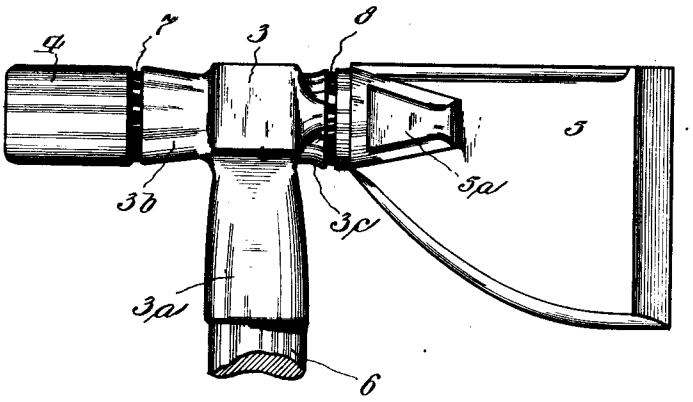
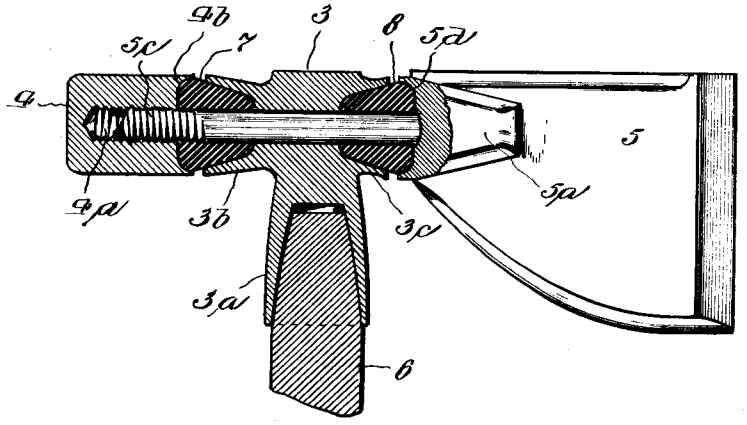


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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HATCHET.

1,118,010. Specification of Letters Patent. Patented Nov. 24, 1914.

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To all whom it may concern:

Be it known that I, JOHN H. HUHN, citizen of the United States, residing at Fairmont, in the county of Marion and State of West Virginia, have invented certain new and useful Improvements in Hatchets, of which the following is a specification.

My invention relates to an improvement in hatchets wherein the blade portion is adapted to be rotated on its horizontal axis to any desired angle, thus making the tool adaptable for use as an adz or for chopping horizontally arranged boards or overhead timbers.

The objects of my invention are, first, to provide a hatchet wherein the blade portion will be suitably assembled to the haft of the hatchet so as to permit of its being adjusted at different angles; second, to provide suitable means, such as rubber cushions, which will frictionally engage and hold in position and against accidental rotation, the blade of the tool; and will also relieve the handle of the tool from excessive shocks or concussion when used for chopping or hammering.

Still another object is to so construct such a tool, that it may be assembled and disassembled with comparative ease and without the use of any special tools.

In the accompanying drawing, which forms a part of this application, I have illustrated a preferred form of my invention, similar reference characters referring to similar parts throughout the following views:—

Figure 1 is an elevation with the blade shown in its usual vertical position, or in the same plane with the handle, and Fig. 2 is a longitudinal vertical section of the device shown in Fig. 1.

The reference characters 3, 4, 5, and 6, designate respectively the haft, poll, blade, and handle of my improved hatchet.

7 and 8 designate trunco-conical rubber washers or shock absorbers adapted to seat in the opposed recessed extensions 3^b, and 3^c, of the haft 3, their outer faces protruding beyond the edges of said extensions, and registering with the recessed faces 4^b, and 5^d, of the poll and blade respectively. The portion of the blade 5, that lie adjacent the haft, is enlarged, as at 5^a, and extending centrally from this enlarged portion and permanently secured thereto, is a longitudinally disposed spindle 5^c, which passes centrally through the members, 8, 3, and 7, and is threaded at its outer end to engage the poll 4, which is internally threaded at 4^a, to receive said threaded spindle.

The haft, 3, is provided with a tubular shank 3^a, extending at right angles to the blade and poll, and adapted to receive the handle 6, which is preferably wedge shaped; the shock absorbing means permitting of this construction, which in ordinary practice is not deemed advisable owing to the tendency of the shank 3^a to crack or break off from the haft, due to the shock of the ordinary hatchet when in operation.

It will be obvious that when the poll 4 is screwed up on the spindle 5^c, the effect will be to compress the tapering rubber washers 7, 8, longitudinally, and thereby expand them laterally, thus setting up a frictional resistance which will effectively hold the blade 5 at any angle to which it was previously set when the poll was partially or entirely unscrewed from said spindle. It will also be apparent that by arranging the rubber washers between the poll 4 and the haft 3, and between the blade 5 and said haft, that the shocks or impacts incident to the use of either poll or blade, will be more or less absorbed by both of said washers.

While I have not shown the blade 5 set in any plane at an angle to that of the handle, it will be readily understood that said blade may be adjusted at any angle incident to the rotation of its spindle 5^c in the bearings provided therefor in the haft 3 and the washers 7, 8. The advantages incident to this adjustable function of the blade are apparent to those skilled in the use of hatchets, hence need not be specifically set forth herein.

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

A device of the kind specified comprising a handle, a substantially T-shaped casting provided with a socket in which said handle is secured, and oppositely arranged axially alining sockets transverse thereto, cushions

seated in said alining sockets, a poll-member engaging one of said cushions, a bit-member engaging the opposite cushion, and a spindle extending through said cushions and casting and connecting said poll and bit members.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN H. HUHN.

Witnesses:
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A. HOOD.