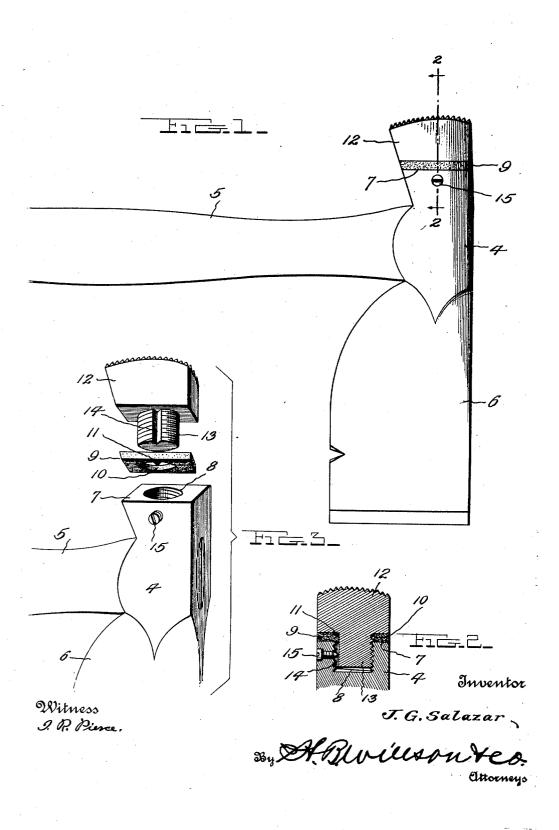
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RENEWABLE HEAD TOOL Filed July 18, 1929



UNITED STATES PATENT OFFICE

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RENEWABLE HEAD TOOL

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The invention relates to nail-driving tools and primarily to box-makers' and lathers' hatchets.

It is the principal object of the invention 5 to provide a new and improved construction of simple and inexpensive nature which will enable a worn out or damaged nail-driving head to be replaced with a new head or will permit easy interchange of heads having 10 teeth of different degrees of fineness, or no

teeth, according to the character of work being done.

In carrying out the above end, the head is provided with an integral threaded stud and 15 the body of the tool is formed with a socket into which said stud is threaded, and it is a further aim of the invention to provide a unique washer between the head and body which is of yieldable character and will assist ⁹⁰ in holding the head against loose movement, even though the screw threads connecting it with the body may become worn. This washer also assists in receiving the impact when blows are struck and consequently it prevents battering of the contiguous faces of the tool body and head.

It is a further object of the invention to provide new and improved construction whereby a stud on a renewable head is locked 30 against accidental rotation within its receiving socket and whereby a washer between the head and the tool body is held against turning with respect to either said head or

said body.

A still further object is to provide a construction in which only a minimum amount of machining is necessary during manufacture and in which such machining may be performed on readily accessible surfaces.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, description being accomplished by reference to the accompanying drawing.

Fig. 1 is a side elevation of a box-maker's hatchet constructed in accordance with the

invention.

Fig. 2 is a detail vertical sectional view on line 2-2 of Fig. 1.

Fig. 3 is a disassembled perspective view.

The drawing above briefly described illustrates the preferred form of construction and while this construction will be specifically explained, it is to be understood that within the scope of the invention as claimed, varia- 55 tions may be made.

The numeral 4 denotes the tool body carried in the usual way by the handle 5 and projecting laterally from the latter. The end of the body 4 remote from the conventional 60 blade 6, which end is denoted at 7, is flat, and the body 4 is formed with a threaded socket 8 which opens through said flat end 7 and has its axis at right angles thereto. Lying against the flat end 7 is a washer 9 of yield- ca able material such as rather highly compressed felt, said washer having an opening 10 aligned with the opening 8 and being provided with a lug 11 projecting inwardly from the wall of said opening. Lying against the 70 outer side of the washer 9, is a head 12 having a flat inner side and provided with an integral threaded stud 13 whose axis is at right angles to said side. This stud passes through the opening 10 and is removably threaded 75 into the socket 8. Stud 13 is formed with a longitudinal groove 14 which receives the lug 11 of the washer 9, preventing turning of the latter with respect to the stud 13 and head 12. Then too, a pointed set screw 15 is 80 threaded into the body 4 with its pointed inner end received in the groove 14, holding stud 13 and head 12 against accidental turning with regard to said body.

When applying the head 12, it may be 85 turned to an extremely tight position on account of the yieldability of the washer 9 and when so tightening the head, the washer 9 will rotate bodily with it due to the connection 11 14 The state of the connection 11 14 The state of the connection 11 14 The state of the connection tion 11—14. It is thus insured that when 90 the head reaches its final position, the edges of the washer shall be in common planes with the sides of the head 12 and body 4. Tightening of the screw 15 now holds all parts in assembled relation and even though the 95 threads on the wall of the socket 8 and on the stud 13 may become more or less worn, the washer 9 will hold the head against loose movement of chattering due to its yieldable

nature. Then too, the washer 9 receives part 100

of the impact when striking blows and prevents battering of the head 12 against the

body end 7.

It will be seen from the foregoing that a simple and inexpensive, yet an efficient and desirable structure has been provided which will permit quick and easy detachment of the head 12 and substitution of another whenever advisable. The construction is such that the tool may be easily manufactured, requires little machining, and necessitates such machining only on surfaces which are readily accessible.

As above stated, while the preferred con-15 struction is disclosed, variations may be made

within the scope of the invention.

What is claimed is:—

1. A nail driving tool comprising a handlecarried body projecting laterally from the 20 handle axis and having a socket opening through its outer end, a compressible washer lying against said outer end of said body and having an opening alined with said socket, a nail driving head lying against the outer side of said washer and having an integral threaded stud passing through said opening and removably received in said socket, means for preventing relative turning of said washer and head, and means for locking said stud

30 against accidental turning.

2. A nail driving tool comprising a handlecarried body projecting laterally from the handle axis and having a socket opening through its outer end, a washer lying against 35 said outer end of said body and having an opening registering with said socket, a nail driving head lying against the outer side of said washer and having an integral threaded stud passing through said opening and removably received in said socket, said stud having a longitudinal groove and said washer being provided with a lug received in said groove to prevent relative turning of the washer and head, and a set screw threaded in said body and having its inner end received in said groove to hold said stud and head against accidental turning.

In testimony whereof I have hereunto

affixed my signature.

JESS G. SALAZAR.

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