

H. T. PETERSON.
TIE AND LUMBER HOOK.
APPLICATION FILED JUNE 28, 1909.

945,864.

Patented Jan. 11, 1910.

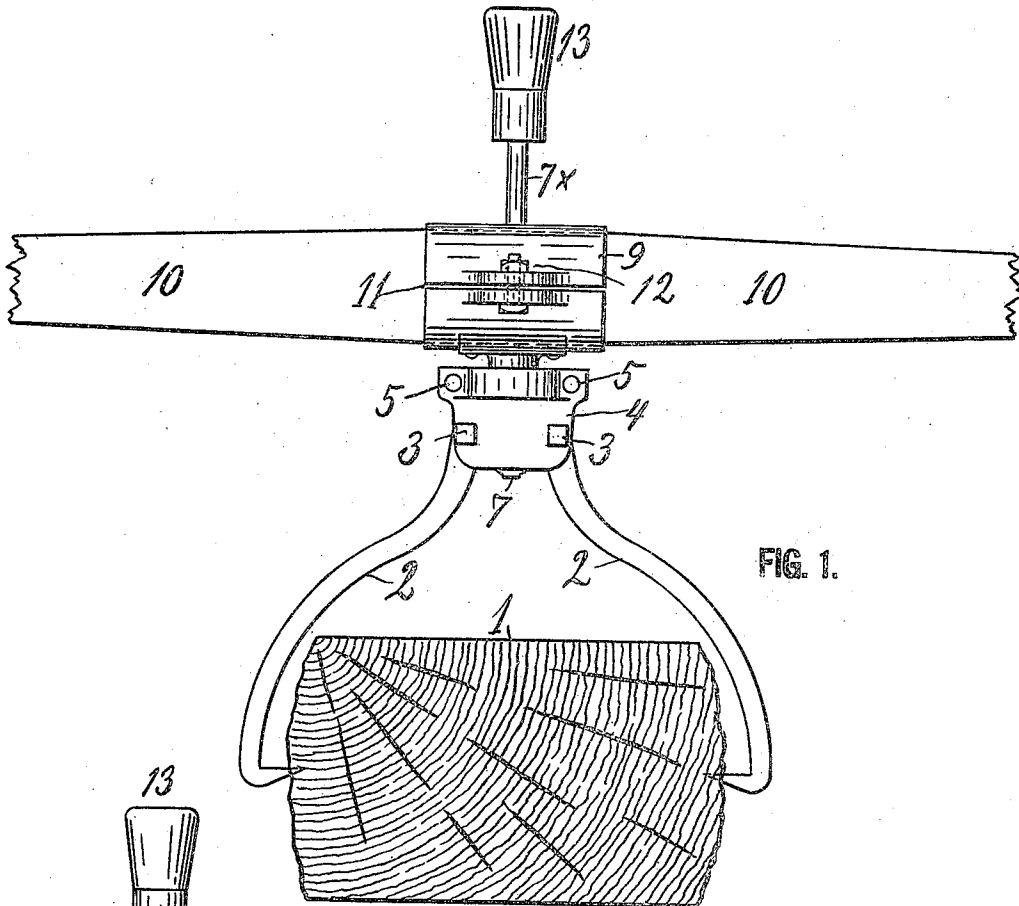


FIG. 1.

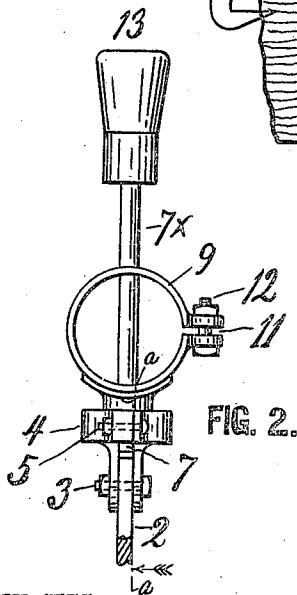


FIG. 2.

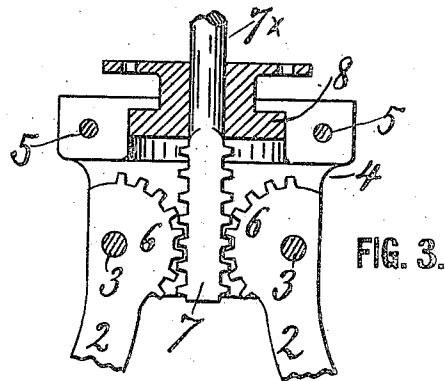


FIG. 3.

WITNESSES:

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INVENTOR:

Hjalmar T. Peterson.
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UNITED STATES PATENT OFFICE.

HJALMAR T. PETERSON, OF FALUN, WISCONSIN.

TIE AND LUMBER HOOK.

945,864.

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To all whom it may concern:

Be it known that I, HJALMAR T. PETERSON, a citizen of the United States, residing at Falun, in the county of Burnett and State of Wisconsin, have invented a new and useful Tie and Lumber Hook, of which the following is a specification.

My invention relates to hooks for handling logs and especially wooden railway ties, and the object is to provide a very convenient and efficient device of said kind.

In the accompanying drawing Figure 1 is a side elevation of my device shown in operative engagement with a railway tie or other log. Fig. 2 is a left hand side view of the device in Fig. 1 with the main handle removed and the tie omitted. Fig. 3 is an enlarged section on the line *a-a* of Fig. 2.

Referring to the drawing by reference numerals, 1 designates the tie or log to be lifted, carried or dragged along the ground, 2 are two sharp hooks used to engage in opposite sides of the tie. These hooks are pivoted by bolts 3 in a shell 4, which is made up of two halves and secured together by said bolts 3 and also bolts 5. Each hook has its upper end provided with a toothed sector 6, which are engaged by an intermediate double rack 7, whose upper portion is a round stem 7* extending upward through a swivel head 8, which is swiveled in the upper part of the shell 4 and is secured to a ferrule 9, in which the main handle 10 is firmly secured by having the ferrule open in one side at 11 and a clamping bolt 12 employed to close it tightly about the handle. The stem 7* extends also through the said ferrule and the handle bar 10, and is provided at its top with a head 13.

In the operation of the device one man takes hold of each end of the handle bar 10, which is of the ordinary length for such devices, and when a tie is to be grabbed by the hooks the latter are spread by a touch with one hand on the top of the head 13 while the device is lowered to the desired position, the hooks are then allowed to close and engage the sides of the tie, which engagement is further forced by the lifting strain applied to

the handles 10. If the tie has any loose bark or otherwise a surface difficult to engage by the hooks, the hooks may be assisted into engagement by pulling upward at the head 13. If the tie does not lie in transverse position to the handle bar 10 either at the time of engaging it or while moving it, it makes no difference as the swivel joint at 8 permits of all necessary variations from a transverse position. After the tie or other log is moved a light tap at the head 13 will disengage the hooks, and in many cases they may be disengaged by simply pressing downward on the handles 10.

What I claim is:

1. In a device of the class described, the combination with a shell or like frame, of a pair of horizontally disposed handle bars attached to the top of the shell, a pair of grabbing hooks pivotally suspended from the lower part of the shell and having toothed sectors concentric with their pivots, a vertically disposed push rod slidably extended through the handle bar and having its lower portion provided with oppositely disposed racks engaging the sectors and its upper end provided with a head.

2. In a device of the class described, the combination with a shell or like frame, a pair of horizontally disposed handle bars attached to the top of the shell, a pair of grabbing hooks pivotally suspended from the lower part of the shell and having toothed sectors concentric with their pivots, a vertically disposed push rod slidably extended through the handle bar and having its lower portion provided with oppositely disposed racks engaging the sectors and its upper end provided with a head, said shell being swivel-jointed to the handle bar.

3. In a device of the class described, the combination with a shell or like frame, a pair of horizontally disposed handle bars attached to the top of the shell, a pair of grabbing hooks pivotally suspended from the lower part of the shell, and having toothed sectors concentric with their pivots, a vertically disposed push rod slidably extended through the handle bar and having

its lower portion provided with oppositely
disposed racks engaging the sectors and its
upper end provided with a head, said shell
being swivel jointed to the handle bar, said
5 handle bar having at its middle a ferrule
open at one side and provided with a clamp-
ing bolt for tightening the ferrule on the
handle, and said ferrule carrying a swivel

head which engages in the shell to form the
swivel joint. 10

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

HJALMAR T. PETERSON.

Witnesses:

JOHN PETERSON,
ED. C. JOHNSON.