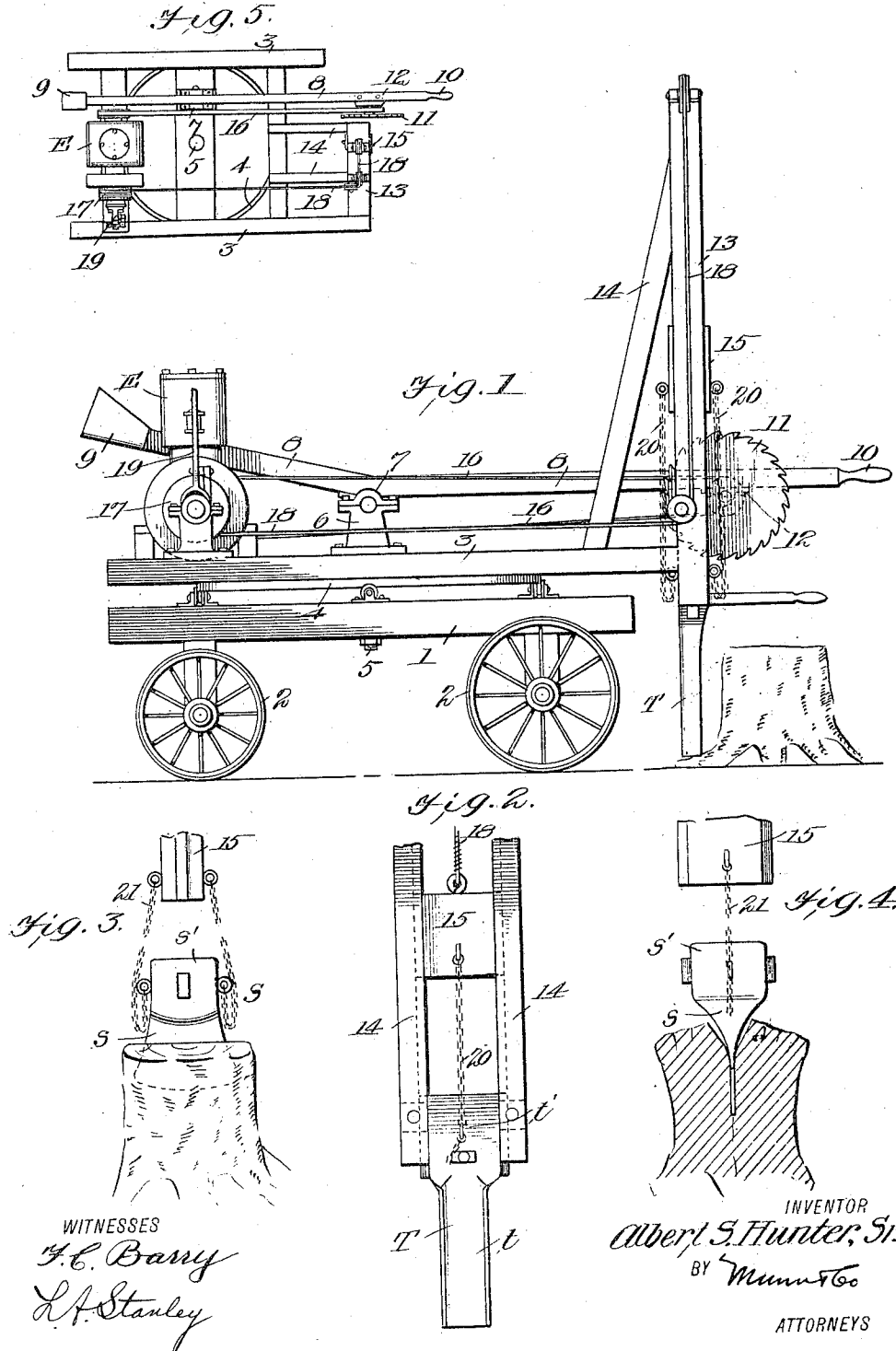


A. S. HUNTER, Sr.
MACHINE FOR SPLITTING AND REMOVING STUMPS.
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1,032,481.

Patented July 16, 1912.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALBERT S. HUNTER, SR., OF QUITMAN, GEORGIA.

MACHINE FOR SPLITTING AND REMOVING STUMPS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT S. HUNTER, Sr., a citizen of the United States, and a resident of the city of Quitman, in the county of Brooks and State of Georgia, have invented certain new and useful Improvements in Machines for Splitting and Removing Stumps, of which the following is a specification.

My invention relates to improvements in devices for splitting and removing stumps and trees, especially pine stumps from which turpentine is to be extracted, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a device by means of which the roots of the stump may be cut, the stump may be sawed and split, and finally the stump itself extracted.

A further object of my invention is to provide a portable device which may be easily moved into operating position, and in which the parts are balanced so as to facilitate such movements.

A further object of my invention is to provide a device having interchangeable tools which will permit double operations such as splitting and cutting.

Other objects and advantages will appear in the following specification, and the novel features of the device will be particularly pointed out in the appended claim.

My invention is illustrated in the accompanying drawings forming part of this application, in which similar reference characters indicate like parts in the several views, and in which:—

Figure 1 is a side view of the device showing the same in operation, Fig. 2 is a detailed view showing the cutting device, Fig. 3 is a side view of the splitting device, Fig. 4 is an end view of the splitting device, and Fig. 5 is a reduced plan view of the device.

In carrying out my invention I provide a truck or base portion 1 mounted on wheels 2. A platform 3 is mounted on a circular track 4 carried by the base 1, the platform being arranged to turn on the circular track around the central pivot 5. Mounted on the platform 3 is a support 6 having bearings 7 for an arm 8. At one end of this arm is a counter weight 9 and at the opposite end a handle 10. A circular saw 11 is carried in bearings 12 on the arm 8. At

the same end of the platform at which the saw is located is a device similar to the ordinary pile driver. This consists of the uprights 13 and braces 14. Between the uprights 14 is a slidable weight 15 (see Fig. 2). At the opposite end of the platform 3 and disposed in such a position as to counter balance the weight of the saw and driver is the engine E. It is provided with a belt 16 which drives the saw 11. It is also provided with a drum 17 around which is wound a rope 18 by means of which the weight 15 is drawn up. This drum is operated by means of a lever and clutch 19 in the usual manner.

Referring now to Fig. 2, I have shown therein a tool T which is especially useful in cutting the roots of stumps. This consists of a curved blade *t* which has an integral head *t'* arranged to enter and slide between the uprights 14. The head *t'* may be attached to the weight 15 by means of a chain 20. The splitting devices consist of a blade *s* having a head *s'* arranged to enter and slide between the uprights 14. The splitter may also be attached to the weight 15 by a chain 21.

From the foregoing description of the various parts of the device the operation thereof may be readily understood. The device as described is drawn to the place where the stump is to be removed and is then placed in the position shown in Fig. 1 with the concave face of the tool T toward the stump. The engine is set going and by working the lever 19 the weight 15 may be drawn up and down so as to cause the tool T to split the roots of the stump in the manner clearly shown in the figure. In view of the fact that the tool may be shifted from side to side by swinging the platform 3 it will be seen that the roots may be quickly cut off. The saw is now brought into position and a longitudinal cut through the center from top to bottom is made. This is done by swinging the saw downwardly by means of the handle 10. The saw is then lifted out of the cut and swung one side while the driver is once more brought over the stump. The splitter S is inserted in the runway between the uprights 14, the lower end of the splitter being placed in the saw kerf in the stump. The driver is then operated in the manner already described and the stump is split in two as shown in Fig. 4. Owing to the fact that the roots have already been cut

the stump will readily fall apart. On very large stumps it may be necessary to take another saw cut at right angles to the first one, but usually one cut will be sufficient.

5 I claim:—

10 In a stump removing device, a truck, a platform pivotally mounted thereon, an upright on said platform, an arm pivotally mounted on said upright, one end of said arm being provided with a counterweight, the other end of the arm being provided with a handle and having a circular saw mounted thereon for swinging the saw into engagement with the stump, a drop hammer

mounted on the platform at the same end 15 with the circular saw, a tool slidably carried by the drop hammer frame and arranged to be brought into the initial position of the saw for operating upon the stump roots, and an engine for operating both saw and the 20 drop hammer on the opposite side of said platform, said engine serving as a counterweight for the saw and the drop hammer.

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Witnesses:

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