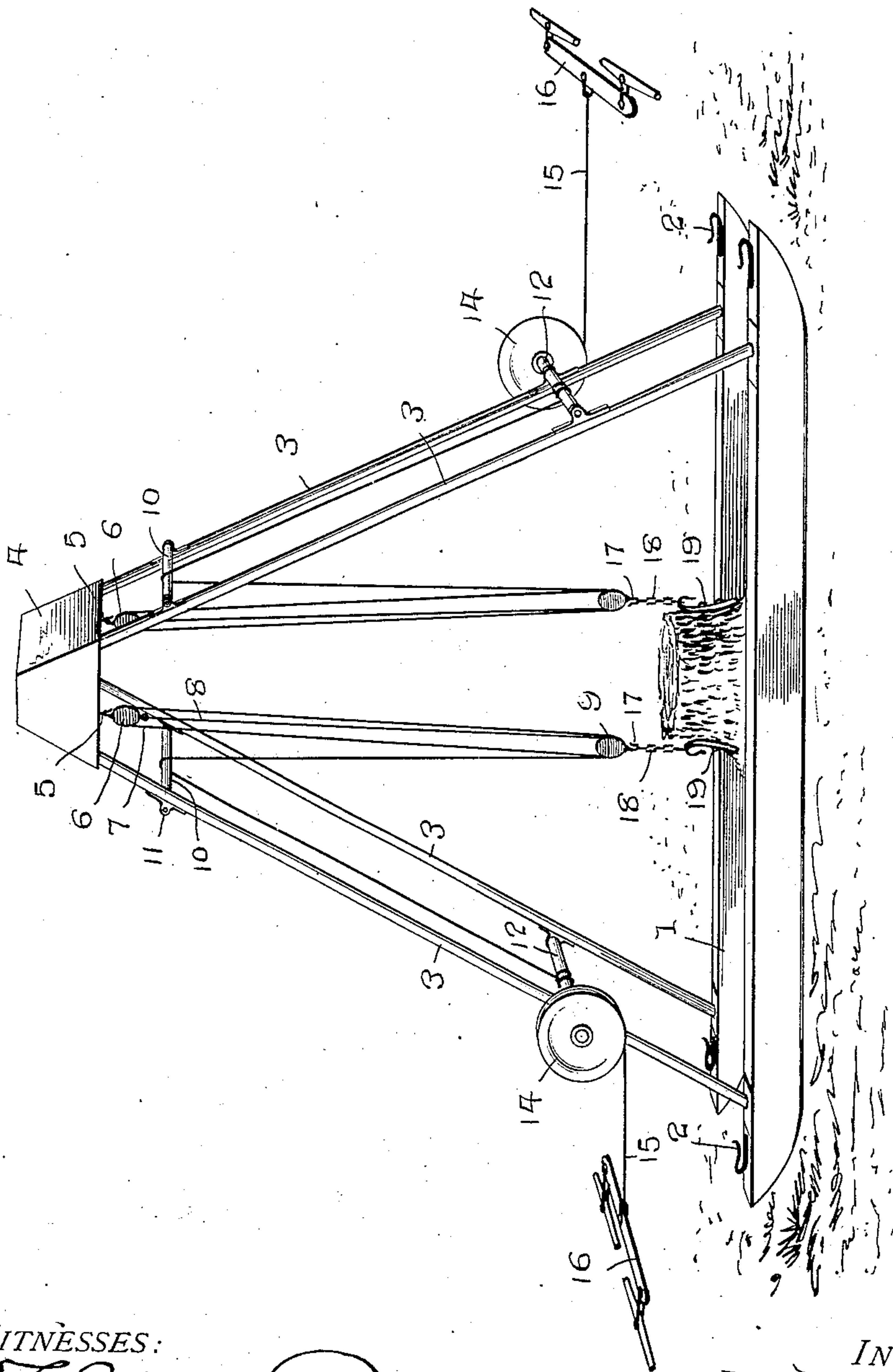


J. BRADLEY.
STUMP EXTRACTOR.
APPLICATION FILED MAY 5, 1908.

914,920.

Patented Mar. 9, 1909.



WITNESSES:

Thomas W. Riley

E. H. Hill

INVENTOR

J. Bradley

BY

W. J. Fitzgerald & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JOHN BRADLEY, OF COLD SPRINGS, OKLAHOMA.

STUMP-EXTRACTOR.

No. 914,920.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed May 5, 1908. Serial No. 430,968.

To all whom it may concern:

Be it known that I, JOHN BRADLEY, a citizen of the United States, residing at Cold Springs, in the county of Kiowa and State of Oklahoma, have invented certain new and useful Improvements in Stump-Extractors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in stump extractors and has primarily for its object a novel device of this character wherein a direct or vertical pull is imparted to the stump to be extracted.

It is also an object of the invention to provide a novel device of this character which may be readily transported from one locality to another.

It is also an object of the invention to provide a novel device of this character which will be simple in construction, efficient in practice and comparatively inexpensive to manufacture.

With the above and other objects in view the invention consists of the details of construction and in the novel arrangement and combination of parts to be hereinafter more particularly referred to.

In describing the invention in detail reference will be had to the accompanying drawings forming part of this specification, wherein is illustrated a view in perspective of the invention.

In the drawings 1 denotes parallel runners having affixed at each of their ends hooks 2, to which is to be attached suitable drafting mechanism (not shown) for transporting the device from one locality to the other.

Projecting upwardly from each end of the runners 1 in the same vertical plane therewith are the rods 3, the rods of each runner converging one toward the other. The upper ends of the rods 3 are affixed to a crown block 4.

Depending from the under surface of the crown block 4 are hooks 5 from which are suspended single pulleys 6. These pulleys or the hooks 5 therefor are positioned adjacent the ends of the block 4 approximately central the width thereof, the distance therebetween being such as to position the pulleys

to either side of an ordinary stump. The advantage of this arrangement lies in the fact that it affords and assures a direct and vertical pull upon the stump to be extracted.

Secured to an eye 7 of each of the pulleys 6 is an end portion of a cable or other flexible member 8 which engages the double pulley 9 and then over the single pulley 6 and back to the double pulley 9 and over a roller 10 mounted in bearings 11 affixed to the rods 3 adjacent the block 4. The cable 8 then passes down and has its end portions secured to a spindle 12. This spindle 12 is mounted in bearings 13 fixed to the rods 3. One end of the spindle 13 projects beyond one end of the rod 3, and this projecting portion has affixed thereto a drum 14. The drum 14 carries a cable 15 which has its outer end secured to the drafting mechanism 16.

It will be readily understood from the foregoing description that when pull is exerted on the cables 8 the pulley 9 will be elevated and in order that this movement of the pulleys will extract the stump, the pulleys are provided with depending hooks 17 which are engaged by flexible members 18, preferably, chains which engage grappling hooks 19 intended to be embedded in the stump to be extracted.

What I claim is:

1. In a device of the character described, the combination of a base, converging rods projecting upwardly therefrom, a block affixed to the upper ends of the rods, rollers carried by the rods adjacent the block, spindles carried by the bars beneath the rollers, means carried by the spindles for rotating the same, stump engaging means, the means of one spindle being on the side opposite to that of the means of the second spindle and flexible means carried by the block engaging the stump extracting means and passing around the rollers, said flexible means being also secured to the spindles.

2. In a device of the character described the combination of runners, rods projecting upwardly from the runners, the rods of each runner converging, the upper ends of the rods being affixed to a block, rollers carried by the rods adjacent the block, spindles mounted in the rods beneath the rollers, means for rotating the spindles and stump extracting means, the means of one spindle

being on the side opposite to that of the means of the second spindle, flexible elevating means secured to the block engaging the stump extracting means and passing around the rollers, said flexible means being also secured to the spindles.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

JOHN BRADLEY.

Witnesses:

J. H. TERRAL,

C. E. SMITH.