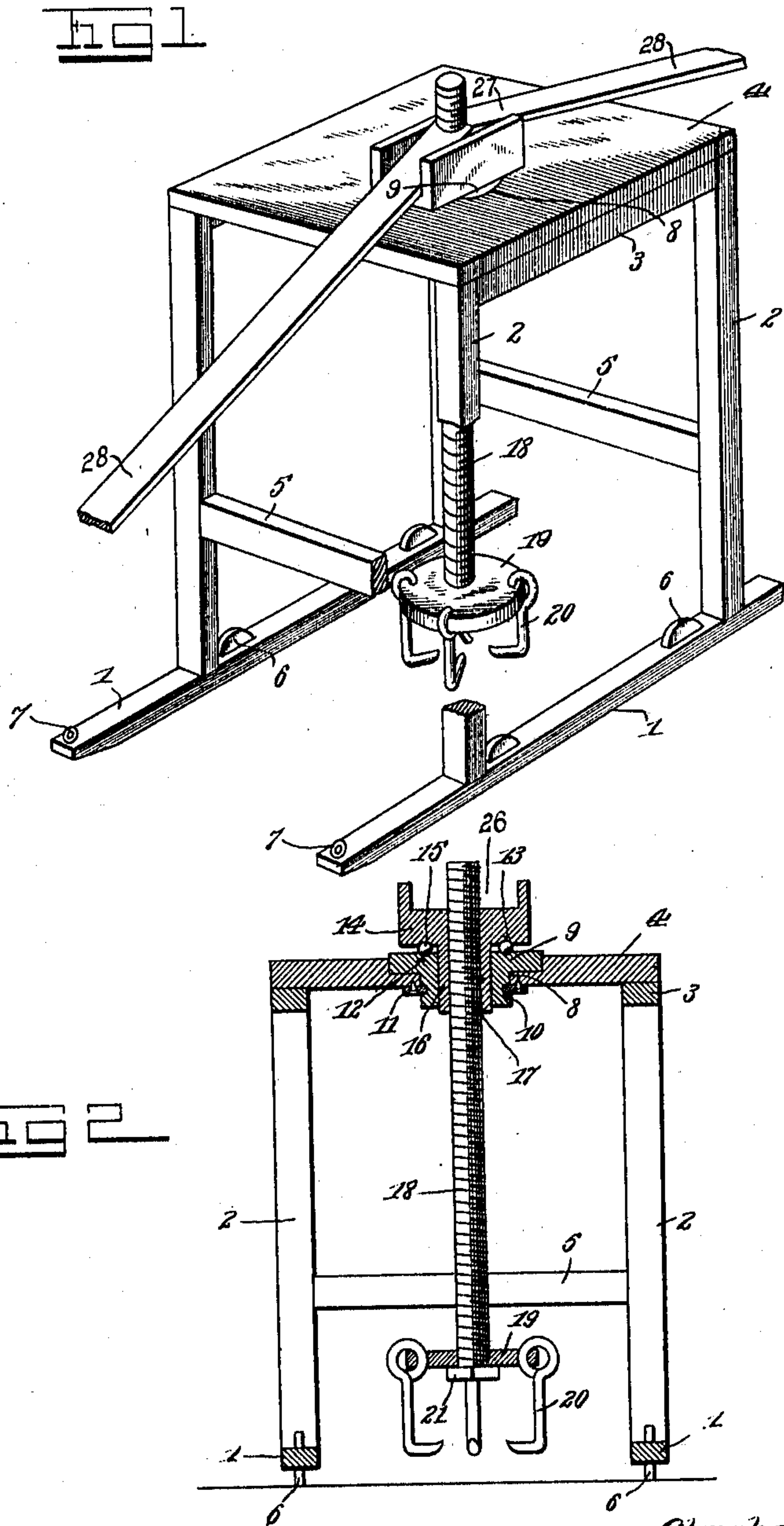


A. T. FAIREY.
STUMP PULLER.
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982,805.

Patented Jan. 31, 1911.



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UNITED STATES PATENT OFFICE.

ABRAHAM T. FAIREY, OF LACEOLA, TEXAS.

STUMP-PULLER.

982,805.

Specification of Letters Patent. Patented Jan. 31, 1911.

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To all whom it may concern:

Be it known that I, ABRAHAM T. FAIREY, a citizen of the United States of America, residing at Laceola, in the county of Madison and State of Texas, have invented new and useful Improvements in Stump-Pullers, of which the following is a specification.

This invention relates to stump pullers, and the object of the invention is to provide improved extracting mechanism embodying a lifting member and gripping members for gripping engagement with the stump and operable to elevate the stump on rotation in one direction of the lifting element.

A still further object of the invention is to provide improved means for moving the said gripping members into and out of engagement with the stump.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a detail perspective view of my improved stump puller. Fig. 2 is a vertical section therethrough.

The stump puller consists preferably of a portable structure comprising a pair of suitably spaced runners 1 from each of which arises a pair of standards 2. The standards 2 are connected at their upper ends by brace bars 3 on which is mounted a head 4. The standards 2 which are diametrically opposite are connected with each other by braces 5. The runners have mounted thereon suitable wheels 6 and at the front, each runner is provided with a draft attachment 7.

The head 4 of the structure described above is provided with a central passage 8 through which extends the depending portion of a bearing 9. This bearing is formed with an exterior groove 10 which is located immediately beneath the head 4. A split washer 11 is secured to the underside of the head and it extends into the groove 10 so as to hold the bearing 9 against accidental displacement. The provision of the washer 11 is such that when the bearing becomes worn it may be removed and replaced by a new one at a minimum cost. The upper surface of the bearing is formed to provide an annular groove 12 which is disposed immediately beneath a similar groove 13 in the bearing 14. Antifriction bodies 15 are arranged in the raceway formed by the grooves 12 and 13 of the just described bearings. The bearing 14 is formed with a depending

portion 16 which extends through a correspondingly formed passage in the gearing 9. The bearing 14 is formed to provide a vertically disposed threaded passage 17 which receives a screw shaft 18.

The shaft 18 forms a lifting element of my improved extracting means and at the lower end the said shaft is provided with a rotatably mounted head 19 which has mounted thereon a plurality of hook-like gripping members 20. These gripping members are designed for engagement with the stump as will be understood. The shaft is formed to provide a stop shoulder 21 on which the head 19 rests.

The bearing 14 is formed to provide a groove 26 in which the intermediate portion of the sweep member 27 is seated. The sweep member is provided with the oppositely extending arms 28 to which the draft animal may be attached when it is desired to rotate the screw shaft 18. The fastening devices 19 extend through the intermediate portion of the sweep member and into the bearing 14.

In operation of the stump puller herein described and shown, the runners straddle the stump to be extracted and the screw shaft 18 is adjusted so as to move the shaft toward the stump and in position to permit the hook-like members 20 to be engaged therewith after the screw shaft has been adjusted to this position it is rotated to move the same away from the stump, whereupon, the elements 20 will be moved into gripping engagement therewith.

I claim:—

1. In a stump puller, a portable support, a bearing member extending through the support and provided on the underside of the support with an exteriorly grooved portion, a removable plate engaged with the support and extending into the groove of the said bearing member, an actuating member supported by the bearing member and having a threaded passage therein, a screw shaft extending through the passage of the said actuating member, and stump gripping elements supported by the said shaft.

2. In a stump puller, a portable support, a bearing member extending through the support and provided on the underside of the support with an exteriorly grooved portion, a removable plate engaged with the support and extending into the groove of the

said bearing member, an actuating member supported by the bearing member and having a threaded passage therein, a screw shaft extending through the passage of the said
5 actuating member, stump gripping elements supported by the said shaft, and a sweep carried by the said actuating member.

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

ABRAHAM T. FAIREY.

Witnesses:

WILLIAM A. YARBROUGHS,
ROBERT J. RANDOLPH.