W. D. VAUGHAN.

BRUSH PULLER.

APPLICATION FILED JAN. 31, 1919.

1,300,897. Patented Apr. 15, 1919.

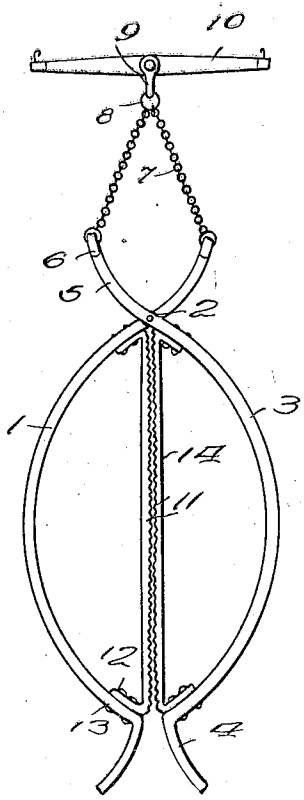

Fig. 1.

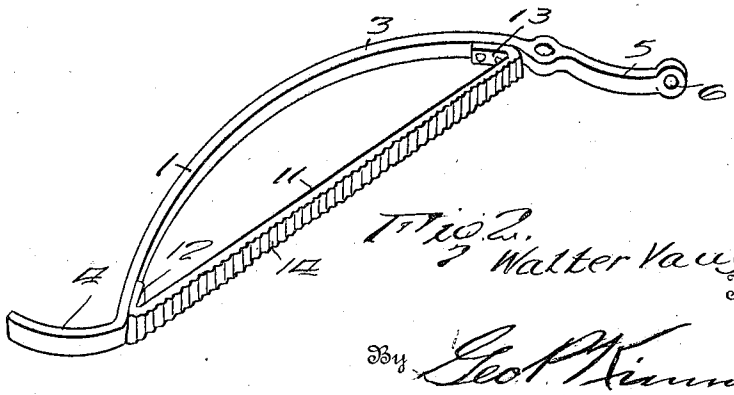

Fig. 2.

Witnesses

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WALTER D. VAUGHAN, OF CLARENDON, VERMONT.

BRUSH-PULLER.

1,300,897. Specification of Letters Patent. Patented Apr. 15, 1919.

Application filed January 31, 1919. Serial No. 274,240.

To all whom it may concern:

Be it known that I, WALTER D. VAUGHAN, a citizen of the United States, residing at Clarendon, in the county of Rutland and State of Vermont, have invented certain new and useful Improvements in Brush-Pullers, of which the following is a specification.

The present invention comprehends generally improvements in that class of inventions known as hoisting and more particularly relates to an improved brush puller.

The invention has for its primary aim and object to provide a device of the above mentioned character designed to be arranged in engagement with brush or weeds for extracting the latter and thereby aid in the preparation of land for cultivating purposes.

It is an additional and equally important object of this invention to provide a device of the above mentioned character wherein the sections which support the engaging jaws are of novel construction and are arranged in connection with the draft device so that when a pull is exerted by the latter, the jaws will be moved into clamping or engaging relation upon the opposite sides of brush near the roots thereof.

More particularly the present invention contemplates the provision of a device of the above mentioned character wherein the engaging jaws are of novel construction, the engaging faces thereof being provided with means for insuring of an effective engagement of the jaws with the brush, in consequence insuring of an effective operation of the device.

Among the other aims and objects of this invention may be recited the provision of a device of the above mentioned character wherein the number of parts are comparatively few, the construction simple, the cost of production low and the efficiency high.

Other objects, as well as the nature, characteristic features and scope of this invention will be more readily apparent from the following description taken in connection with the accompanying drawings, and pointed out in the claims, forming a part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a top plan view of the improved brush puller, and

Fig. 2 is a perspective detail of one of the supporting sections with the jaw attached thereto.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now, more particularly, to the accompanying drawings there is provided a pair of complemental or identical sections generally designated by the numeral 1 pivoted together as at 2 near adjacent ends, the main portions 3 of the two sections being curved arcuately in opposite directions and terminate in outwardly projecting sides 4 which are arranged in divergent relation with respect to each other. The short portions of the sections at the opposite side of the pivot are slightly curved and terminate in loops 6 with which are loosely engaged inner ends of flexible elements such as chains 7 the outer ends of the chains being connected with a suitable connecting means such as a ring 8 which in turn is loosely engaged with another connecting device such as a clevis 9 carried by a draft device in the present instance in the form of a swingle tree 10.

With a view toward providing the improved engaging means, a pair of jaws 11 are employed and each is formed from a single straight piece of relatively flat metal, from the terminals of which continue attaching flanges 12 designed to be secured to the inner surfaces of the main portions 3 of the sections 1 near the terminals thereof that is, near the pivot point 2 and near the sides 4, the connection being maintained through the instrumentality of fasteners 13 so that as a result when the sections or the main portions 3 thereof are moved toward each other, the jaws 11 will lie parallel and in contacting relation with each other, the adjacent faces being serrated or otherwise roughened as at 14 to facilitate an effective engagement with the brush (not shown) about which the jaws are designed or adapted to be arranged, the point of engagement being near the roots. It is of course understood that the sections are spread or the jaws moved away from each other to facilitate proper positioning of the device and are swung together so that the jaws will engage opposite sides of the brush. It is also apparent that when a pull is exerted on the flexible connecting elements or chains 7 the short portions 5 of the sections 1 will

be drawn toward each other and in like manner the main portions 3 will be moved toward each other insuring of an effective clamping engagement of the jaws 11 with the brush. By constructing and pivoting the sections in the peculiar manner, it is readily apparent that the greater the pull exerted on the sections the greater will be the engagement between the jaws.

It is believed in view of the foregoing description that a further detailed description of the operation of the invention is entirely unnecessary. Likewise, it is believed that the advantages of the invention will be readily apparent.

Still further embodiments of the invention than those herein especially defined may be resorted to as conditions or preference may dictate, as may be in keeping with the hereto appended claims.

Having thus fully described the invention, what is claimed as new and desired to be secured by Letters Patent, is:—

1. A device of the character described including a pair of complemental sections pivoted together near adjacent ends and arranged in cross-like form and having their long portions curved arcuately in opposite directions and arranged in opposed relation with respect to each other, coacting guides at the outer portions of the sections and arranged in divergent relation with respect to each other, serrated engaging jaws carried by the inner surfaces of the curved portions of the sections and arranged in opposed relation with each other and positioned so as to move into clamping relation when a pull is exerted on the short portions of the sections, flexible elements operably connected with the short portions of the sections, and a draft device connected to the flexible elements.

2. A device of the character described comprising a pair of complemental sections pivoted together near adjacent ends and arranged in cross-like form and having their long main portions curved arcuately in opposite directions and arranged in opposed relation with respect to each other, coacting guides continuing from the outer portions of the main lowering portions and arranged in divergent relation with respect to each other, gripping jaws each of which is formed from a single straight piece of material, angularly disposed attaching flanges at the terminals thereof, means for securing said flanges to the inner surfaces of the main long portions and near the ends thereof, the outer and adjacent faces of the straight portions of the jaws being serrated and positioned so as to move in clamping relation when a pull is exerted on the short portions of the sections, flexible elements operably connected with the short portions of the sections, and a draft device connected to the flexible elements.

In testimony whereof, I affix my signature hereto.

WALTER D. VAUGHAN.