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J. A. McGINTIE.
PULLING AND LIFTING DEVICE.
FILED MAY 28, 1921.

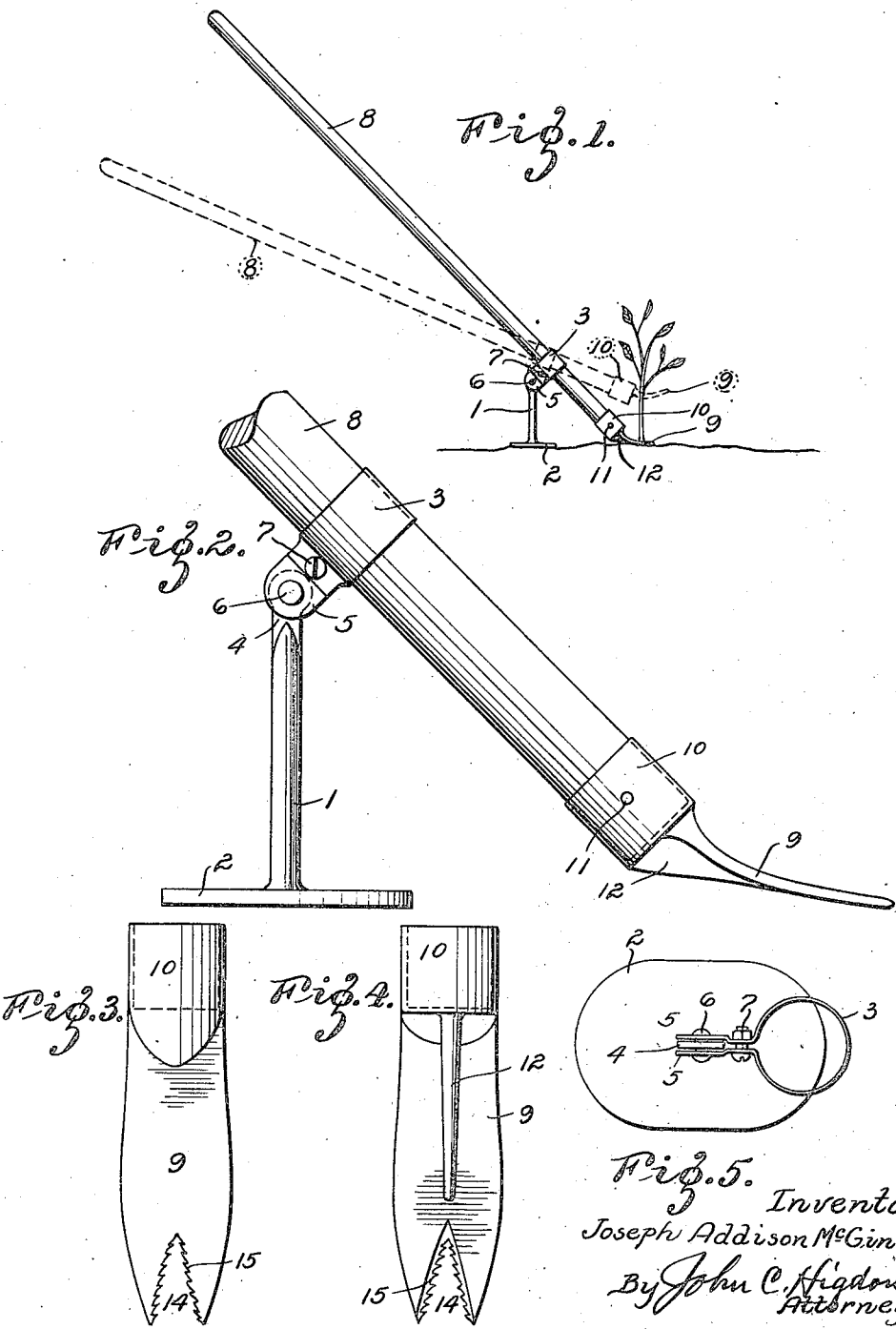


Fig. 5. Inventor
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UNITED STATES PATENT OFFICE.

JOSEPH ADDISON MCGINTIE, OF ST. LOUIS, MISSOURI.

PULLING AND LIFTING DEVICE.

Application filed May 23, 1921. Serial No. 473,512.

To all whom it may concern:

Be it known that I, JOSEPH ADDISON MCGINTIE, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Pulling and Lifting Devices, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention consists in the novel construction and combination of parts herein-after particularly described and distinctly claimed.

The object of my invention is to provide an improved farm and garden implement, which can be readily used for pulling weeds, and in thinning out plants; and which implement (when made on a larger and stronger scale) may be used for lifting and pulling heavy articles, such as logs, telegraph and telephone poles, boxes, barrels, stones, and many other things.

In the drawings,

Fig. 1 is a side-elevation of my improved implement, as used in pulling weeds, or in thinning out plants.

Fig. 2 is an enlarged side-elevation of the operative parts of my invention, the hand-lever being broken away above the fulcrum-collar, to economize in drafting space.

Fig. 3 is a top plan-view of the forked prong, knife, hook, blade, or shovel, detached from the lower end of the hand-lever, and enlarged.

Fig. 4 is an inverted plan-view of the same, and

Fig. 5 is a top plan view of the fulcrum-collar and the swinging or pivoted fulcrum-stand, detached from the hand-lever.

The numeral 1 designates the vertical fulcrum-standard having a flat horizontal base-plate or foot 2 at its lower end, and having its upper end pivotally connected to a fulcrum-collar 3.

In the present illustration of my invention, the upper portion of said fulcrum-standard 1 is flattened and perforated, and the flattened and perforated portion 4 is mounted between two perforated ears 5, which are formed integral with said fulcrum-collar 3.

A rivet 6, or other form of pivot, passes through the registering apertures in said ears 5 and said flattened portion 4, and thereby pivotally connects said fulcrum-standard

to said fulcrum-collar 3. A common screw, bolt, or other fastening device 7 is passed through registering apertures in the said ears 5 at a point more closely adjacent the circular body of said collar 3, and tightly clamps said collar around and upon the hand lever 8, at a point near the lower end of the latter.

Of course, if a greater or less leverage is desired, the position of the said collar 3 on the hand-lever should be changed by loosening said fastening device 7 and sliding the said collar on said hand-lever to the desired position, where said collar may readily be locked and fixed by again tightening said fastening device.

On the lower end of the said hand-lever 8 is fixed a strong metallic shovel, blade, hook, knife, or forked-prong, 9, which is to engage beneath, or on opposite sides of the weed, plant, or other article or obstacle to be pulled or lifted.

In the present construction, as shown, an integral ferrule or socket 10 is formed at the upper end of said shovel, or blade, 9, and the lower end of the said hand-lever 8 is driven into said ferrule or socket, and is therein fastened by a suitable pin or rivet 11 passed through the opposite sides of said socket and through the intervening hand-lever. See Fig. 2.

Said knife or blade 9 is reinforced and greatly strengthened by an integral web of metal 12, which is located on the underside of said member, and extends longitudinally thereof at about the center of its width, to the lower end of said ferrule or socket 10, against which said web abuts, or is made integral with both blade and socket.

Also in the present form of my invention, the said knife shovel or blade 9 is made forked at its lower end, there being a V-shaped longitudinal recess in the free end of said member, as designated by the numeral 14, so that in pulling weeds or plants, or in lifting things which stand upright, the said things are forcibly engaged on opposite sides by the opposite edges of said fork or V-shaped recess 14, and indented or recessed thereby, as well as frictionally engaged or grasped by the opposite inclined walls of the said V-shaped recess, during the pulling or lifting of such things as weeds, plants, stalks, poles, and the like.

In order that the opposite walls of the said V-shaped recess 14 of said shovel or

blade 9 may the more effectively grasp the plants, weeds, stalks, poles, and other vertical things that are to be pulled or lifted, I provide said walls with knife-edges in 5 which are teeth or serrations 15.

The operation and use of my invention will be readily understood from the above description, and it only need be added that the said fulcrum-standard 1 is suspended 10 from the said hand-lever, and swings therefrom freely, like a pendulum, and always assumes and retains (automatically) a vertical position, when so suspended, so that the wide foot or base-plate 2 of said standard 15 will always strike the ground in a substantially horizontal position, when said foot or base-plate is being placed as a foundation for a fulcrum for the implement.

When not in use, and in shipping, the said 20 fulcrum-standard 1 and said foot or base 2, are folded towards the hand-lever; in which position they occupy less space, and the implement may be wrapped in a small package, in the case of weed and plant pullers.

All parts of the implement are made 25 strong and durable.

I claim:—

A pulling and lifting implement, comprising a hand-lever; a blade on the lower end of said hand-lever; said blade having an integral ferrule formed at the upper end 30 thereof, said blade also having a longitudinal V-shaped recess formed in its free end; an integral reinforcing web of metal located on the underside of said blade and extending longitudinally thereof at about the center of its width, and having its upper end abutting said ferrule, to act as a brace as well as a reinforcement for said blade, and a fulcrum-standard for said hand-lever. 35

In testimony whereof, I have signed my name to this specification in presence of two 40 subscribing witnesses.

JOSEPH ADDISON MCGINTIE.

Witnesses:

HENRY L. HIGDON,
JOHN C. HIGDON.