Dec. 5, 1950 P. BALDWIN ET AL 2,532,533

COMBINATION POST PULLER AND JACK

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Fig. 1.

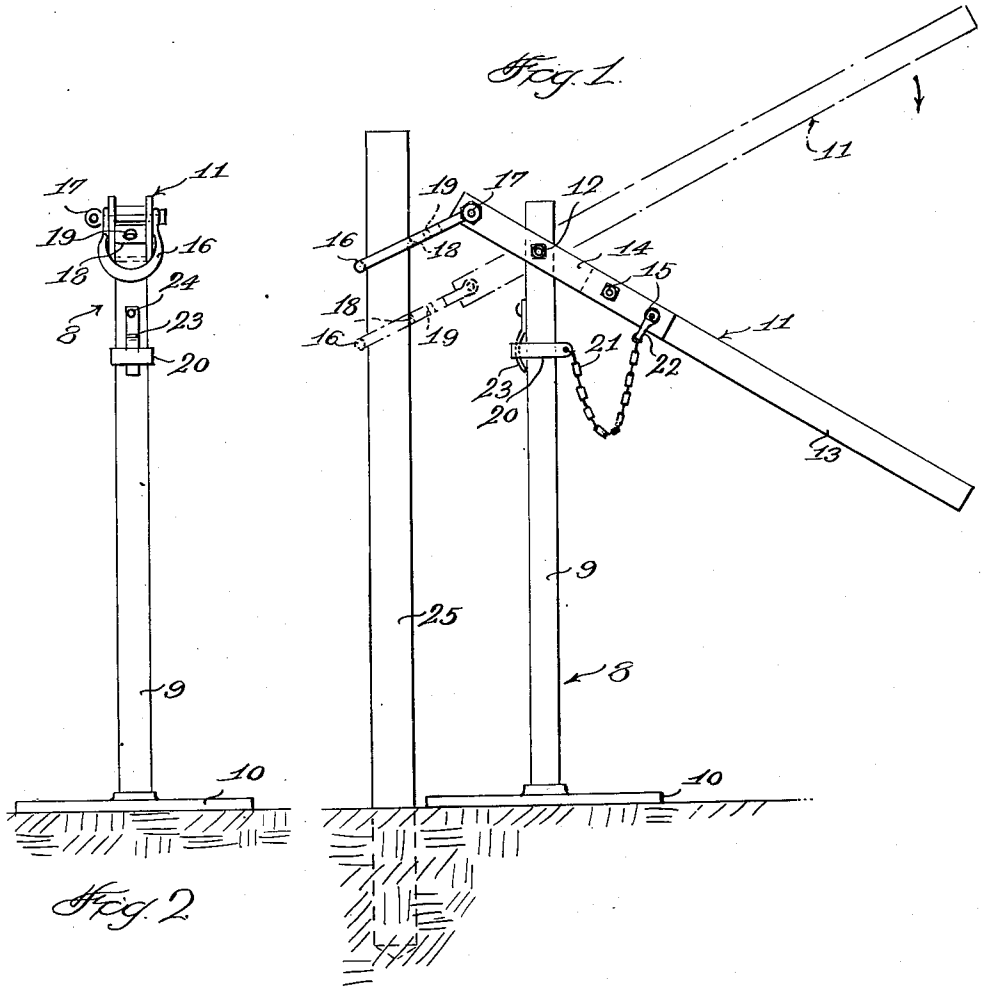


Fig. 2

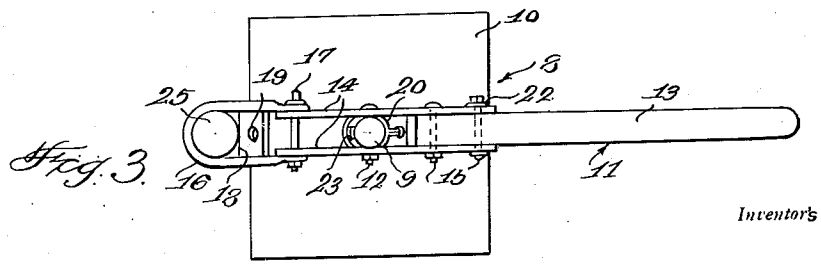


Fig. 3.

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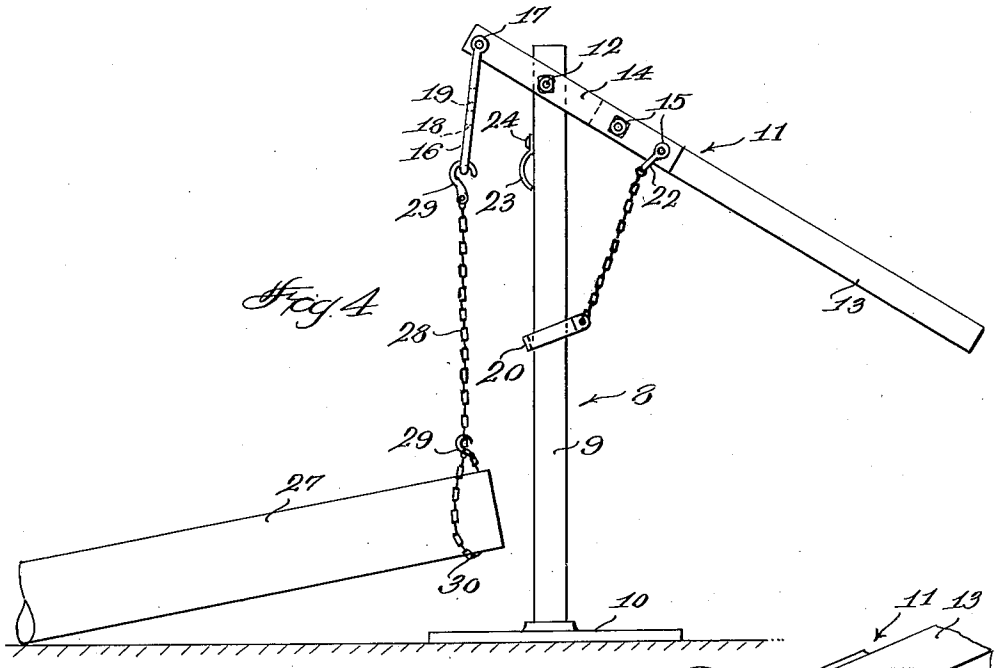


Fig. 4

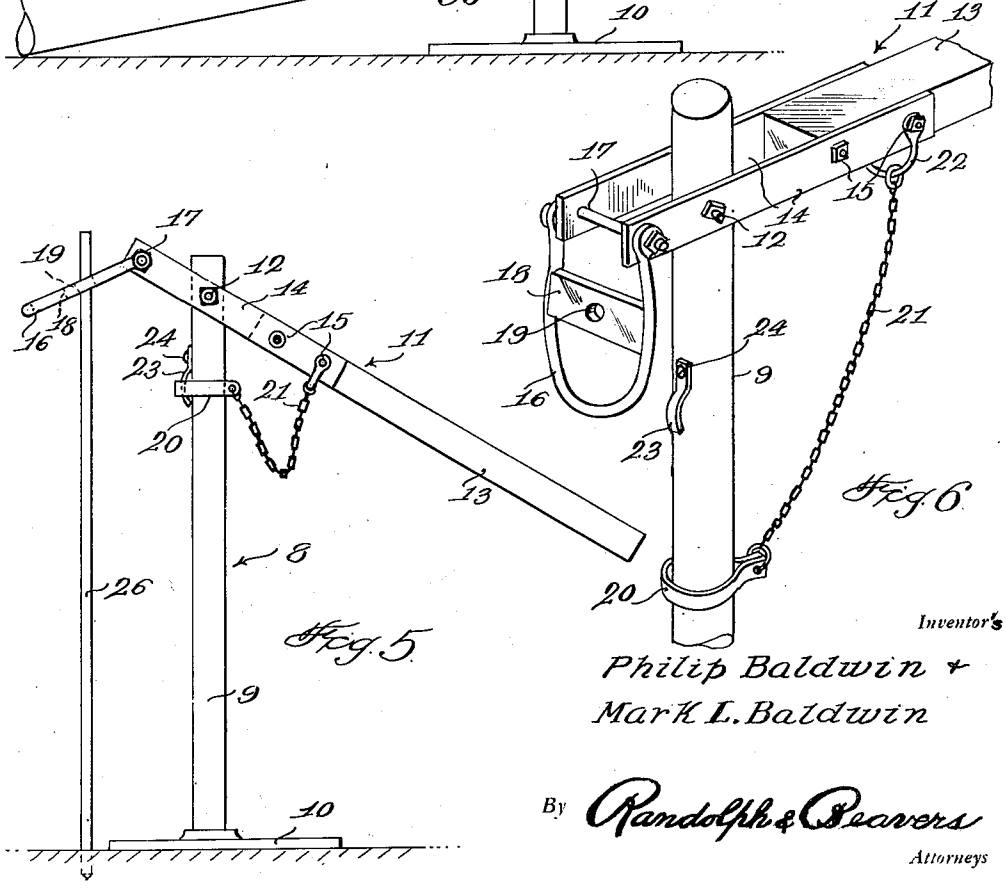


Fig. 5

Fig. 6

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2,532,533

COMBINATION POST PULLER AND JACK

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Application September 26, 1947, Serial No. 776,308

1 Claim. (Cl. 254—132)

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This invention relates to an improved tool or machine, especially adapted for farm use for pulling posts from the ground and for elevating loads and supporting such loads in an elevated position.

More particularly, it is a primary object of the present invention to provide a post puller of extremely simple construction capable of being utilized for pulling posts of various sizes and shapes from the ground or which may be employed for lifting and supporting a post in an elevated position preparatory to positioning it in a post hole.

Still a further object of the invention is to provide a combination tool or machine for the aforedescribed purposes of extremely simple construction, capable of being economically manufactured and sold and which will be extremely durable and efficient for its intended purposes.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawings, illustrating preferred embodiments thereof, and wherein:

Figure 1 is a side elevational view showing the device in an applied position and being employed as a post puller;

Figure 2 is an elevational view of the device looking from left to right of Figure 1 and with the post omitted therefrom;

Figure 3 is a top plan view of Figure 1;

Figure 4 is a view similar to Figure 1 but showing the implement employed as a lifting jack;

Figure 5 is a view similar to Figure 1 showing the implement employed as a post puller for posts of small cross sectional size, and

Figure 6 is an enlarged fragmentary perspective view of the upper portion of the implement.

Referring more specifically to the drawings, the combination post puller and jack, designated generally 8, includes an upright supporting standard 9 mounted at its lower end in a base 10 which is adapted to rest on any suitable supporting surface. A lever 11 is pivotally connected near one end thereof by a nut and bolt fastening 12 to the standard 9, adjacent the upper end of the latter. The lever 11 includes an elongated handle portion 13 having a pair of strap members 14 secured to opposite sides of one end thereof by fastenings 15 and having ends projecting therefrom to provide a bifurcated extension of the handle 13 which straddles the standard 9 and through which the fastening 12 extends.

A substantially U-shaped clevis 16 is pivotally

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connected at its terminals to the shorter end of the lever 11 by means of a nut and bolt fastening 17 which extends through the apertured ends of the clevis 16 and through aligned apertures in the free ends of the strap members 14. The two legs of the clevis 16 are connected intermediate of their ends by a relatively wide web 18 having a centrally disposed opening 19 therein.

A ring or collar 20 is slidably disposed on the standard 9 and is connected to one end of a flexible member such as the chain 21, the opposite end of which is attached to the lever 11 by a loop 22 which is mounted on one of the fastenings 15. A spring clip 23 is connected by a fastening 24 adjacent its upper end to the standard 9 and is disposed longitudinally thereof and near the upper end of said standard to detachably support the collar or ring 20 in an elevated, inoperative position, as illustrated in Figures 1 and 5.

Assuming that it is desired to utilize the implement 8 for pulling a post 25, as seen in Figures 1 and 3, of relatively large diameter, the implement is set up with the base 10 resting on the ground in close proximity to the post and after the clevis 16 has been applied over the upper end of the post and so that the post is disposed therein in the opening thereof formed by the bite portion of the clevis and the adjacent edge of the web 18.

With the collar or ring 20 supported in an elevated, inoperative position by the clip 23, the handle end 13 of the lever 11 is swung upwardly from its full line to or beyond its dotted line position of Figure 1 for causing the clevis 16 to slide downwardly on the post 25 and to pivot on the fastenings 17 relatively to the lever 11 in accomplishing this sliding movement. When a downward pull is subsequently exerted on the handle end 13 of the lever 11, the outer edge of the web 18 will be caused to bite into the post 25 to thereby clamp the post between said edge and the bight portion of the clevis 16 as the clevis is rocked on its pivot 17 relatively to the lever 11 until it is in binding engagement with the post. Further downward swinging movement of the handle 13 will cause the clevis 16 to be elevated and to lift the post 23 out of the hole in which it is embedded. Ordinarily a single stroke of the lever 11 is sufficient to completely extract the post 25 but if necessary, the lever 11 may be again rocked counterclockwise for reengaging the clevis 16 at a lower point on the post 25 and so that the lifting operation can be repeated. After the post 25 has been lifted out

of the ground, if desired, it may be supported in an elevated position by releasing the collar 20 from the clip 23 and allowing it to slide downwardly on the standard 9 until it assumes a canted position, as illustrated in Figure 4 so that by binding engagement with the standard it will anchor the flexible member 21 thereto for preventing the lever 11 from swinging counterclockwise and so that the implement 8 will thus function for supporting the post in an elevated position.

Where it is desired to similarly utilize the device for lifting and extracting a post of small diameter, as seen at 26 in Figure 5, the implement 8 is similarly applied to the post except that the upper end of the post 26 is received through the opening 19 of the web 18 and after the lever 11 has been rocked counterclockwise to lower the clevis on the post 26, by rocking the lever in the opposite or clockwise direction, clevis 16 will pivot on the fastening 17 relatively to the lever for binding engagement with the post 26 and so that further clockwise movement of the lever 11 will lift the post in the same manner as previously described with respect to the post 25. For extracting posts of large diameter or for elevating a load, as indicated at 27 in Figure 4, a flexible member or chain 28 is provided at each end thereof with a hook 29, one of which hooks is engaged with the clevis 16 and the other of which hooks is engaged with a link of the chain to form a loop 30 around the load 27 or around the base of an embedded post so that when the lever 11 is rocked in a clockwise direction the load will be lifted or the post extracted and the collar 20 may be employed for holding the lever against counterclockwise swinging movement on its fulcrum 12 for supporting the load or post 27 in an elevated position.

Various modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended claim.

We claim as our invention:

An implement of the character described comprising a base adapted to rest on a supporting surface, a standard fixed to and rising therefrom, a lever fulcrumed adjacent one of its ends on said standard, a clevis pivotally connected at the terminal of its legs directly to the shorter end of said lever for slidably engaging a post to be pulled when said lever end is swung downwardly, and a web extending between the legs of the clevis and spaced from the bight portion thereof to combine with said bight portion to define a post receiving opening, said web having a flat edge disposed adjacent said bight portion, said bight portion being of arcuate cross section on its inner side, and said lever being canted with respect to the post by upward movement of the shorter end of the lever to cause the post to be gripped between the bight portion of the clevis and said flat edge of the web.

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