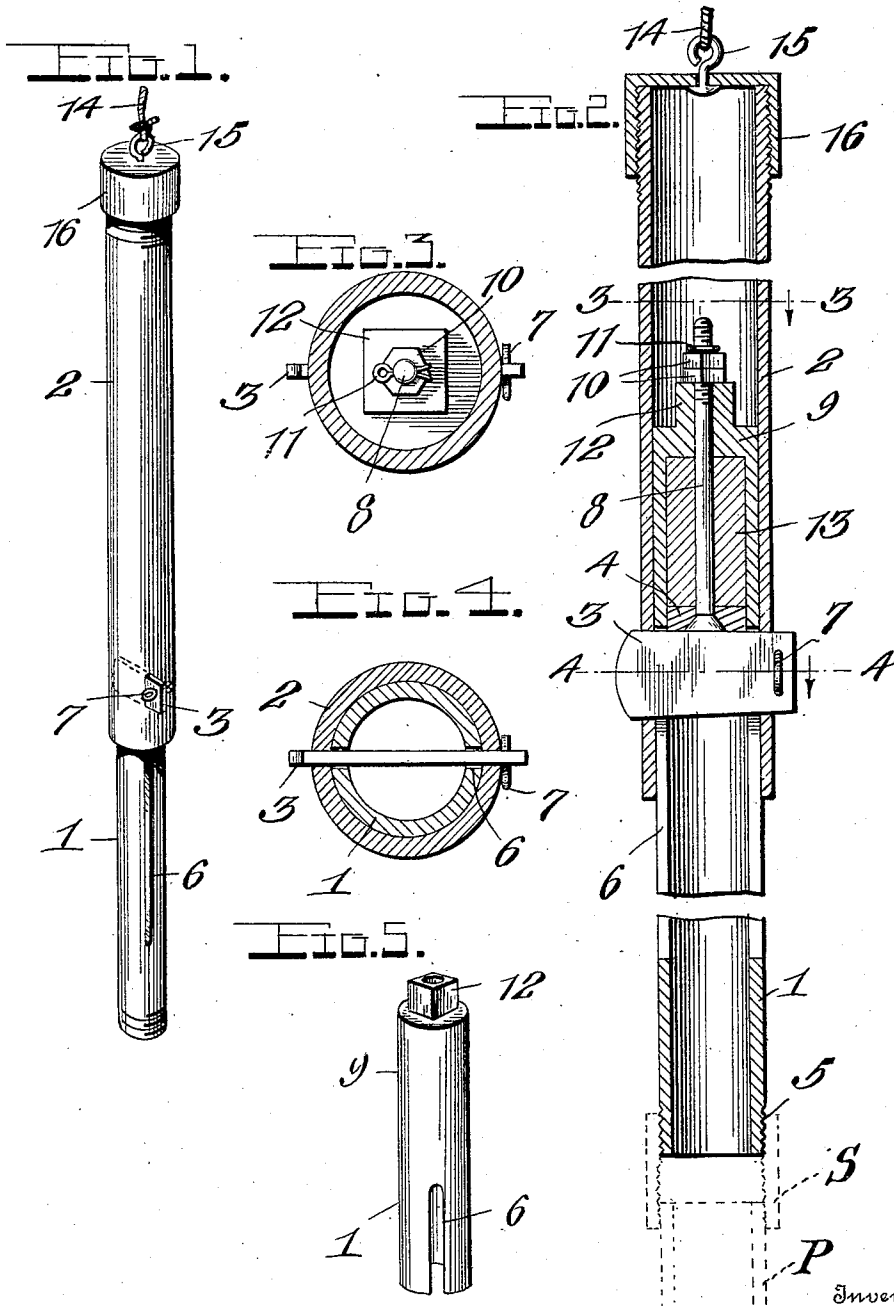


J. ANDERSON.
PIPE PULLER.
APPLICATION FILED MAR. 30, 1910.

969,508.

Patented Sept. 6, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

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PIPE-PULLER.

969,508.

Specification of Letters Patent.

Patented Sept. 6, 1910.

Application filed March 30, 1910. Serial No. 552,316.

To all whom it may concern:

Be it known that I, JULIUS ANDERSON, a citizen of the United States, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented certain new and useful Improvements in Pipe-Pullers, of which the following is a specification, reference being had to the accompanying drawings.

This invention is a device for pulling pipe, either oil pipe, well casings, or any other driven pipe.

The object of the invention is to provide a simple and practical device or appliance by means of which a driven pipe may be readily loosened and drawn out of the ground; and it consists broadly in an attaching member to engage the pipe to be lifted, a movable member to reciprocate on the attaching member and jolt or jar it in an upward direction to loosen or lift the pipe, and co-acting stops on the two members.

The invention further consists in the novel features of construction and the combination and arrangement of parts, hereinafter described and claimed, and illustrated in the accompanying drawings in which:—

Figure 1 is a perspective view of the preferred embodiment of the invention; Fig. 2 is an enlarged longitudinal section through the device, a portion of the pipe to be lifted and its coupling being indicated in dotted lines; Figs. 3 and 4 are cross sectional views taken respectively on the planes 3—3 and 4—4 in Fig. 2; and Fig. 5 is a detail perspective view of the upper portion of the attaching member.

The invention comprises an attaching member 1 and a jarring or hammering member 2 which is mounted for reciprocation and carries a stop 3 to engage a stop 4 on the member 1. These members may be of any suitable form and construction but I preferably make them tubular and have the upper movable or reciprocatory member 2 telescope the lower or attaching member 1. The latter may also be attached or connected to the pipe to be lifted by any suitable means, but as illustrated the lower extremity of the tubular member 1 is externally screw threaded as at 5 to screw into a coupling sleeve S on a pipe P, which latter is to be

lifted from the ground. The stop 3 is preferably in the form of a transverse key made wedge-shaped and passed through registering openings in the lower portion of the tubular member 2 and longitudinal slots 6 formed at opposite points in the member 1, the wedge key being retained in position by a split pin 7 or other suitable means. The stop 4 is preferably in the form of a metal head formed or secured in the upper portion of the member 1 at or adjacent the upper extremities of the slot 6 so as to provide an enlarged and substantial bearing surface for contact with the stop wedge 3. This stop head 4 is preferably secured in position by a centrally arranged, longitudinally extending bolt 8 which passes through the closed upper end 9 of the member 1 and has on its projecting threaded upper end a pair of nuts 10 which are locked by a split pin 11 or other suitable means. The closed end 9 of the member 1 has a reduced flat faced portion 12 which may be engaged by a wrench when the nuts 10 are being applied or removed, and which further serves to strengthen the upper extremity of said member. A filling block 13 of wood or other material is arranged in the member 1 between the head 4 and the end 9 to strengthen and protect said upper end of the member. The movable jarring member 2 may be actuated by any suitable means but I preferably employ a rope 14, the lower end of which is attached to an eye or ring 15 arranged in a cap 16 screwed or otherwise secured to the upper end of said member 2.

In using the invention the device is lowered into the well and the attaching member 1 is screwed into the coupling of the pipe to be lifted. The cord 14 is then reciprocated to reciprocate the jarring member 2, which latter on each of its upward strokes causes the member 1 to be jarred in an upward direction when the stop key 3 strikes the stop head 4. By continuing the reciprocation of the member 2 the member 1 will gradually loosen and elevate the pipe P.

While I have shown and described in detail the preferred embodiments of the invention, it will be understood that I do not wish to be limited to the precise construction set forth, since various changes in the form, proportion and arrangement of parts, and in

the details of construction, may be resorted to within the spirit and scope of the invention.

Having thus described the invention, what is claimed is:

5 A device of the character described comprising a tubular attaching member adapted to have its lower end connected to the element to be lifted and formed in its intermediate portion with opposing longitudinal slots, and having its top closed and formed with a concentrically arranged opening, a
10 filler block arranged in the closed upper end of said attaching member and having a central opening, a head plate arranged in said member beneath the block and having its
15 bottom face disposed in a plane beneath the plane of the upper ends of said slots, a bolt

passed through the head plate and the openings in said filler block, and closed upper end of the member, a tubular jarring member telescopically arranged on the upper portion of the attaching member, a transverse key arranged in the lower portion of the jarring member and extending through the slots in the attaching member, for movement therein toward and from said head plate, and a rope attaching means at the upper end of said jarring member. 20 25

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 30

JULIUS ANDERSON.

Witnesses:

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L. M. McCUMBER.