D. E. BADLEY.

PULLING IMPLEMENT.

APPLICATION FILED MAR. 24, 1917.

1,237,149. Patented Aug. 14, 1917.

Fig. 1

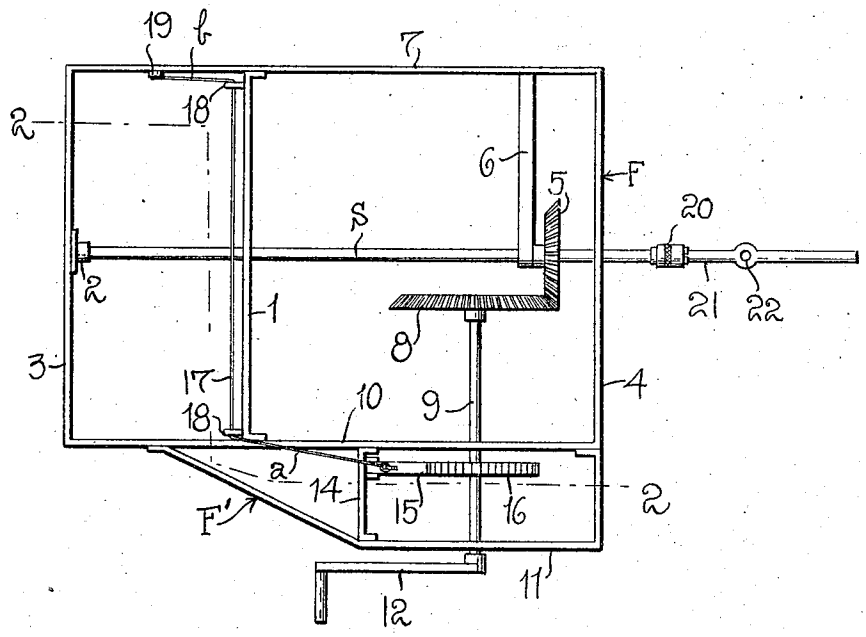
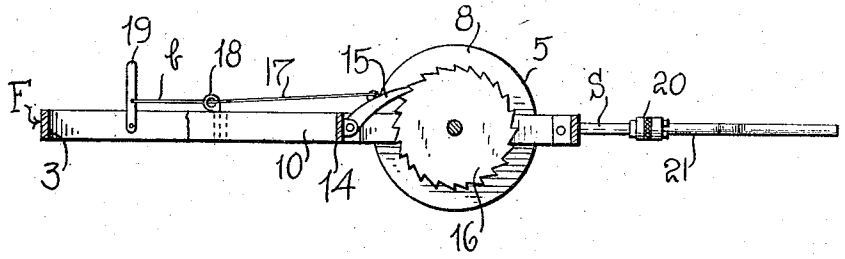


Fig 2



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PULLING IMPLEMENT.

1,237,149. Specification of Letters Patent. Patented Aug. 14, 1917.

Application filed March 24, 1917. Serial No. 157,213.

To all whom it may concern:

Be it known that I, DRURY E. BADLEY, a citizen of the United States, residing at Sulphur Springs, in the county of Hopkins and State of Texas, have invented certain new and useful Improvements in Pulling Implements, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in pulling implements and has relation more particularly to a device of this general character of a stretcher type; and it is an object of the invention to provide a novel and improved device of this general character including a rotatably supported winding shaft together with means for imparting the requisite rotation thereto.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved pulling implement whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a view in top plan of a pulling implement constructed in accordance with an embodiment of my invention; and

Fig. 2 is a sectional view taken substantially on the line 2—2 of Fig. 1.

As disclosed in the accompanying drawings, F denotes a frame substantially rectangular in form and provided at a predetermined point intermediate its length with a cross member 1. Disposed longitudinally of the frame F and rotatably supported thereby is the main shaft S. One end of the shaft S is seated within a socket 2 carried by an end bar 3 of the frame F and said shaft S is freely disposed through the cross member 1 and the opposite end bar 4 of the frame F.

Affixed to the shaft S at a point in close proximity to the end bar 4 is a bevel gear 5. Operatively engaged with the shaft S inwardly of the bevel gear 5 is a brace arm 6 carried by a side bar 7 of the frame F.

The gear 5 is in mesh with a gear 8 carried by the shaft 9 rotatably supported by the second side bar 10 of the frame F and by a side bar 11 of the supplemental frame F′ carried by said side bar 10. The shaft 9 has operatively engaged with its outer end the crank 12 whereby the requisite rotation may be imparted to the shaft S.

The supplemental frame F′ includes a cross member 14 with which is operatively engaged a pawl 15 normally in engagement with the ratchet 16 carried by the shaft 9 at a point intermediate the bars 10 and 11. The pawl or dog 15 and the ratchet 16 serve to hold the shafts S and 9 against rotary movement in one direction.

Connected with the pawl 15 is a flexible member 17 which extends rearwardly of the frame F, as indicated at *a*, and is then disposed transversely of the frame F through suitable guides 18 carried by the cross member 1 and terminating at the opposite side of the frame F with the rearwardly directed portion *b*. The portion *b* of the flexible member 17 is operatively engaged with the pivoted arm 19 adapted to be engaged by a digit of a hand and preferably the thumb, whereby the pawl or dog 15 may be disengaged from the ratchet 16 when the requirements of practice so necessitate.

The shaft S extends forwardly of the end bar 4 and is provided at its outer end with the gripping socket 20 of any ordinary or preferred type and which is adapted to operatively engage the spindle 21. The spindle 21 is of predetermined dimensions and is provided at a predetermined point intermediate its length with an opening 22 through which an end portion of the wire or other strand to be stretched is directed. As the shaft S is rotated in one direction the wire or other flexible member will be wound around the spindle 21 and resulting in the requisite stretching of said wire or strand.

It will be self-evident that when the requirements of practice necessitate a drill or other working tool may be engaged within the gripping socket 20.

From the foregoing description, it is thought to be obvious that a pulling implement constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it

may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice, except as hereinafter claimed.

I claim:

1. A device of the character described comprising a frame, a shaft rotatably supported thereby and provided at one end with an engaging socket, a second shaft supported by the frame and operatively engaged with the first named shaft, said second named shaft being angularly related to the first named shaft and provided with operating means, a ratchet carried by the second named shaft, a pawl carried by the frame and coacting with the ratchet for holding the shafts against rotation in one direction, a flexible member operatively engaged with the ratchet and extending to the side of the frame remote from the ratchet for disengaging the pawl from the ratchet, and a pivoted arm carried by the frame with which said flexible member is operatively engaged.

2. A device of the character described comprising a frame, a shaft rotatably supported thereby and provided at one end with an engaging socket, a second shaft supported by the frame and operatively engaged with the first named shaft, said second named shaft being angularly related to the first named shaft and provided with operating means, a ratchet carried by the second named shaft, a pawl carried by the frame and coacting with the ratchet for holding the shafts against rotation in one direction, a flexible member operatively engaged with the ratchet and extending to the side of the frame remote from the ratchet for disengaging the pawl from the ratchet, and a cross member carried by the frame and provided with guides coacting with the flexible member.

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

DRURY E. BADLEY.

Witnesses:
M. H. PONDER,
S. W. BRYARLY.