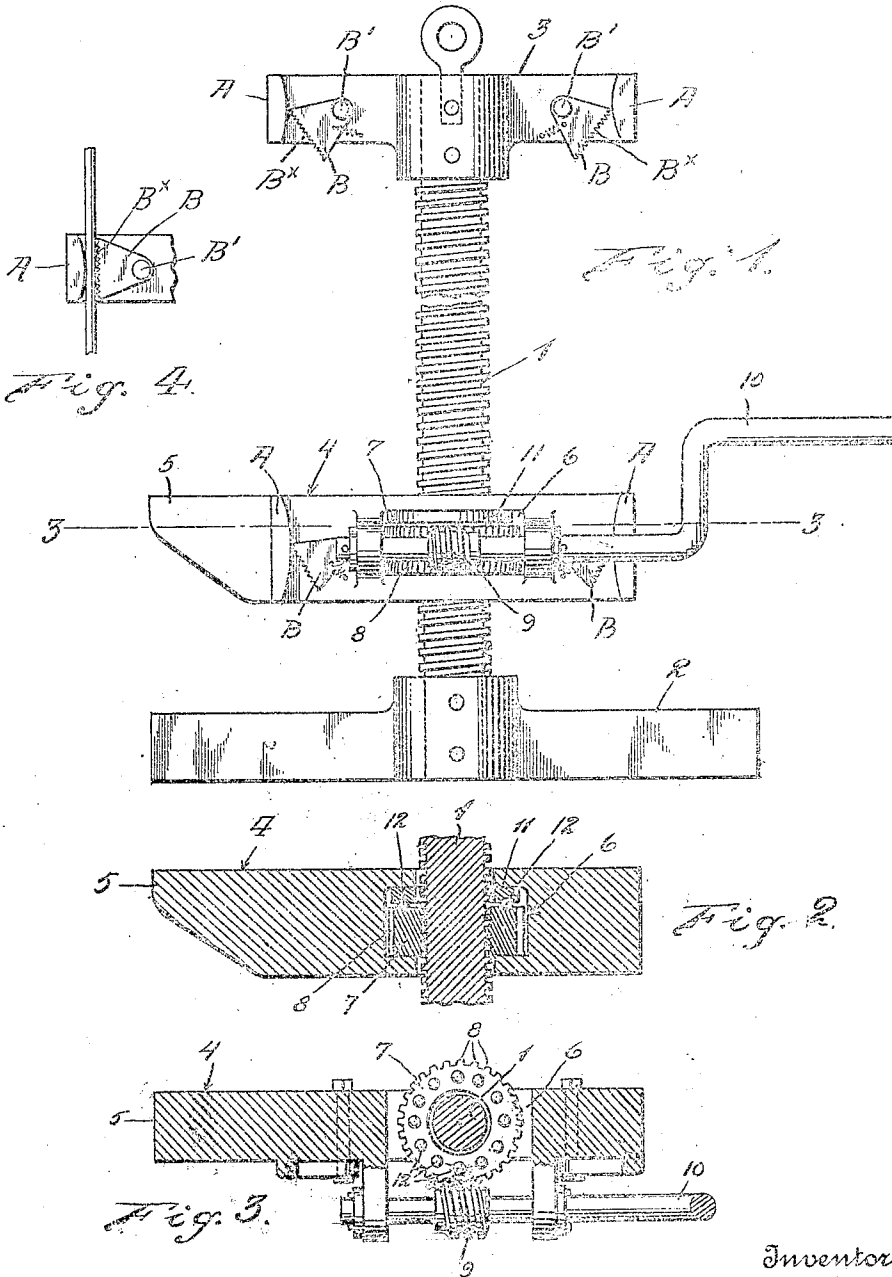


F. F. McBRIDE.
LIFTING JACK.
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1,286,041.

Patented Nov. 26, 1918.



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FREDERICK F. McBRIDE, OF MEDICINE HAT, ALBERTA, CANADA.

LIFTING-JACK.

1,286,041.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FREDERICK F. McBRIDE, a citizen of the Dominion of Canada, residing at Medicine Hat, in the Province of Alberta and Dominion of Canada, have invented new and useful Improvements in Lifting-Jacks, of which the following is a specification.

This invention relates to new and useful improvements in lifting jacks and the principal object of the invention is to provide a yoke or engaging member embracing a screw-threaded standard and carrying a lifting ring having screw-threaded engagement with the standard and rotatably mounted within the yoke with means carried by the yoke for rotating the ring.

Another object of the invention is to provide a ball bearing arrangement between the ring and yoke and to rotate the ring by worm gearing.

Another object of the invention is to provide a device of this character which is simple and durable in construction, reliable and efficient in operation and one which can be manufactured and placed upon the market at a minimum cost.

The invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is an elevation of the device.

Fig. 2 is a vertical section.

Fig. 3 is a cross section on line 3—3 of Fig. 1.

Fig. 4 is a detail showing the wire-stretchers.

As shown in these figures 1 represents the standard provided with screw-threads and being secured to a base 2 at one end and having a head 3 at the other end. 4 represents the yoke which embraces the standard and which is provided with a nose 5 and a recess 6. 7 indicates a ring located in said recess and provided with interior screw-

threads engaging with the threads on the standard. On its outer periphery said ring is provided with the worm-teeth 8 which engage with the worm 9 carried by the yoke and rotated by the crank 10. 11 indicates a ring loosely embracing the standard and located in the recess in the yoke, said ring being located above the ring 7 and ball bearings 12 are located between said rings. The ring 11 bears against the upper surface of the recess.

It will thus be seen that when the crank is turned to rotate the worm 9 that the ring 7 will also be rotated so that the same will travel on the standard and by reason of the fact that it is connected with the yoke the said yoke will be caused to travel along with the ring. In this way by placing the nose 5 of the yoke under an object to be lifted the same can be easily raised by rotating the crank 10.

While I have described the invention as a lifting jack it will of course be understood that the jack may be used for other purposes. For instance it may be used as a wire-stretcher by placing the semi-circular members A at opposite sides of the head 3 and pivoting the members B to said head at the points B', said members having the curved ends B* for cooperating with the members A to grip the strands of wire between them, as shown in detail in Fig. 4. The wire holding means just described are also placed on the yoke and in using the device the base 2 is suitably secured to a post and the stretchers carried by the yoke connected with the wires, the yoke being first run up to the top of the standard, then by running the yoke toward the base the wires will be stretched. The wires are then gripped by the devices carried by the head so as to hold the said wires against movement and then the yoke is run back to the head and a new hold taken and so on until the wires are sufficiently stretched. It will be understood that in this operation the standard extends horizontally.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make slight changes in the construction and

in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

5 A lifting jack comprising a screw-threaded standard, a yoke loosely embracing the same and having a recess therein, a screw threaded ring engaging the standard and seated in said recess, a worm carried by the

yoke, a crank for rotating the worm, worm 10 teeth on the outer periphery of the ring engaging with said worm, a second ring embracing the standard and located within the recess, and ball bearings located between said rings. 11

In testimony whereof I affix my signature.

FREDERICK F. McBRIDE.