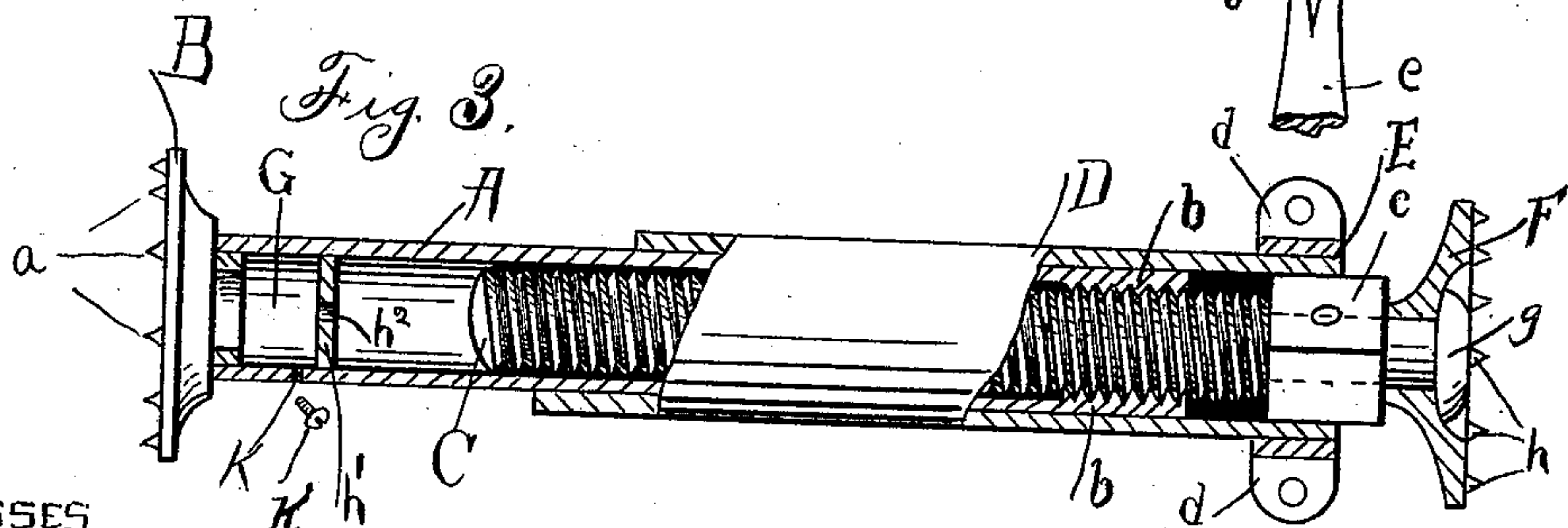
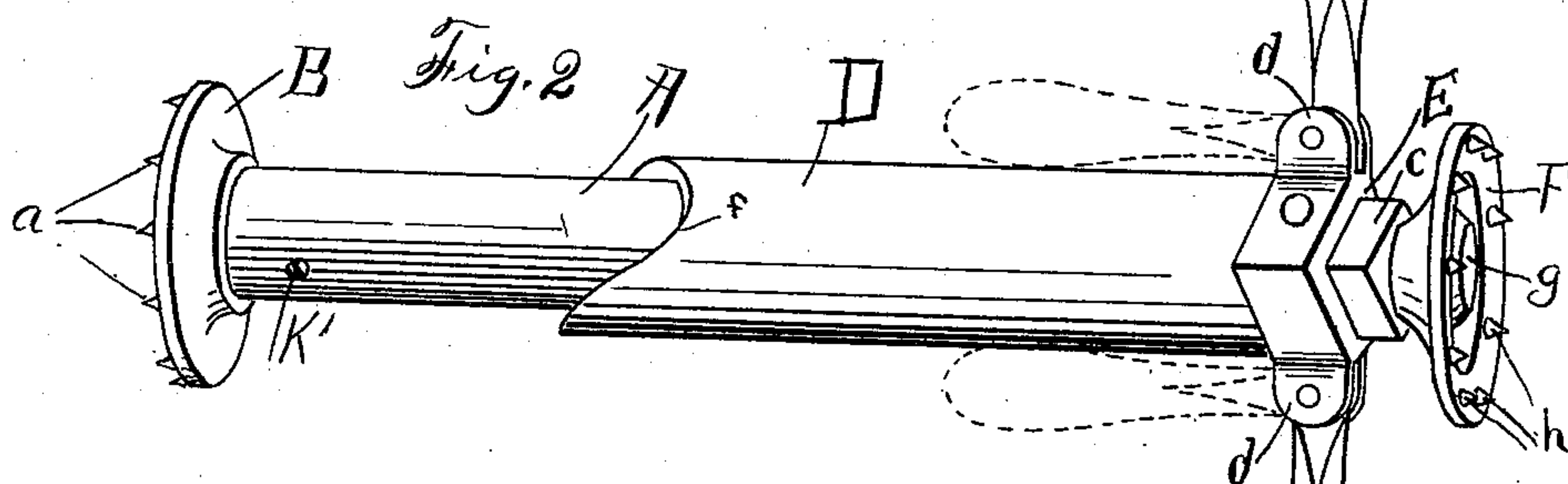
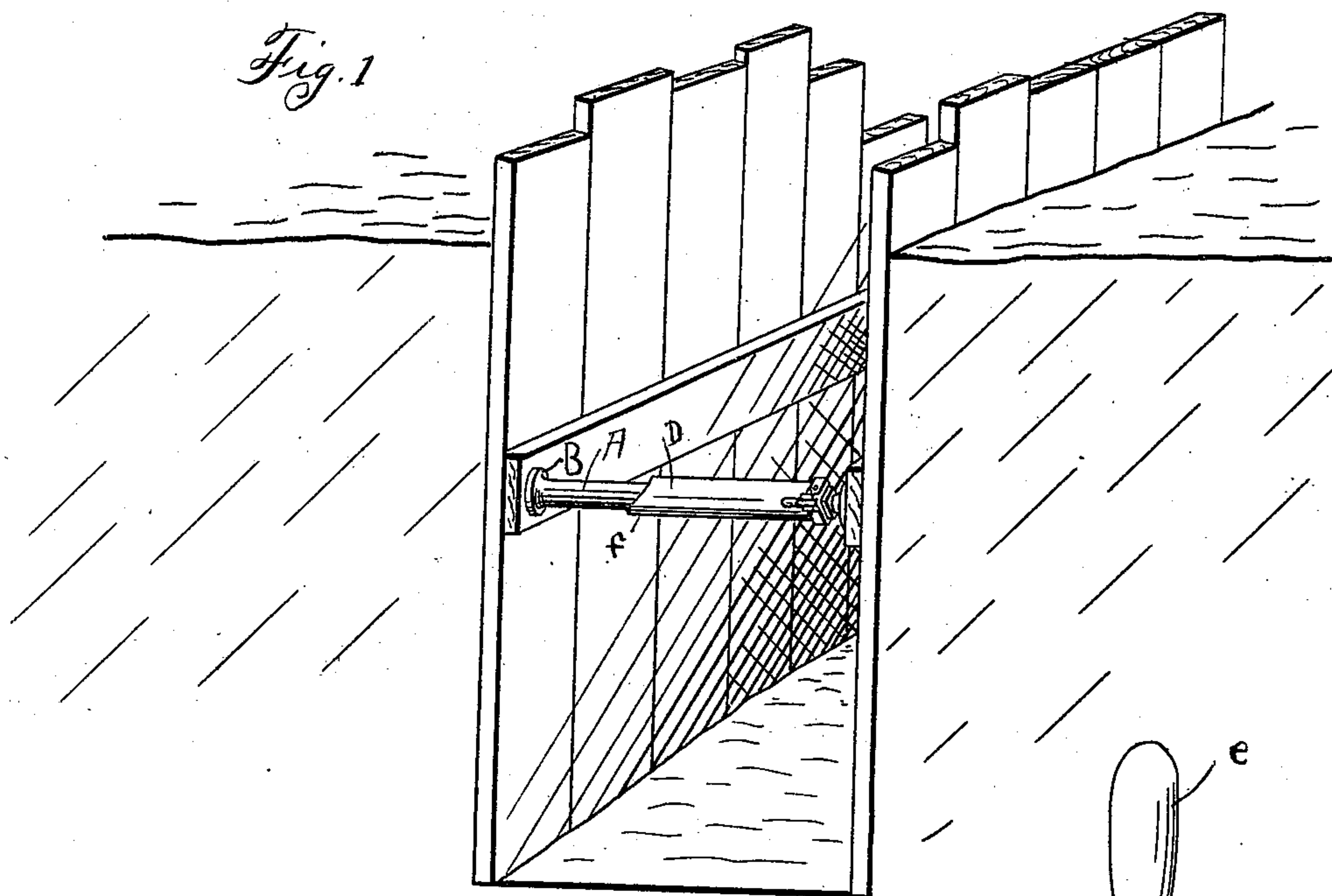


(No Model.)

R. RUE.
DITCHING JACK.

No. 543,056.

Patented July 23, 1895.



WITNESSES

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UNITED STATES PATENT OFFICE.

ROSS RUE, OF ALLIANCE, OHIO.

DITCHING-JACK.

SPECIFICATION forming part of Letters Patent No. 543,056, dated July 23, 1895.

Application filed January 14, 1895. Serial No. 534,812. (No model.)

To all whom it may concern:

Be it known that I, ROSS RUE, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Ditching-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a view showing my device or jack applied to use. Fig. 2 is a perspective view. Fig. 3 is a longitudinal section, except a portion of the rotating tube is shown in side elevation.

The present invention has relation to ditching-jacks; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all of the figures of the drawings.

In the accompanying drawings, A represents the inner tube which may be of any desired length and size. To the outer end of the tube A is attached the head or disk B, which disk is preferably provided with the points *a*. The inner end of the tube A is provided with the screw-threaded portion *b*, which screw-threaded portion is formed of a length sufficient to properly engage the screw-threads upon the screw-threaded shaft C.

The screw-threaded shaft C is formed of sufficient length to give to the jack proper the desired amount of adjustment. The outer end or portion of the screw-threaded shaft C is provided with the head *c*, which head is formed angular to receive a wrench for the purpose hereinafter described. Upon the outer tube D is located the band or flange E, which band or flange is provided with the ears or flanges *d*, to which flanges *d* are pivotally connected the handles *e*, which handles are for the purpose of rotating the tube D and the screw-threaded shaft C.

The object and purpose of pivoting the handles *e* is to provide for turning the handles down upon the tube D, as illustrated by the dotted lines, Fig. 2, thereby bringing the handles out of the way when it is desired to

place plank upon the jack proper. In case it is desired to use a long wrench to rotate the screw-threaded shaft C and the tube D, the wrench is applied upon the angular head *c*. The tube D is extended a considerable distance over the tube A, and is so extended for the purpose of entirely covering the screw-threaded shaft C at all times.

It will be understood that in use the jack is to be applied at any desired point or points between the top and the bottom of the ditch, and it frequently happens that clay adheres to the different parts of the jack, thereby interfering with the rotation of the outer tube D as said tube is carried forward over the tube A, and for the purpose of shearing the clay or other substance that has accumulated upon the tube A the inner end of the tube D is provided with the shear *f*, which shear is formed by curving the end, as illustrated in the drawings.

The head or disk F is pivotally attached to the extreme outer end of the screw-threaded shaft C, and is held in proper position by means of the head *g*, which head may be swaged upon the end of the screw-threaded shaft C. The disk or head F is provided with the points *h*, which points are for the purpose of assisting in holding the jack proper in the desired position with reference to the ditch.

The outer end of the tube A is provided with the oil-receptacle G, which receptacle is formed by means of the disk *h'*, said disk being provided with the small aperture *h²*, said aperture being for the purpose of allowing the oil to find its way upon the screw-threaded shaft C, and thereby properly lubricate said screw-threaded shaft.

For the purpose of placing oil in the receptacle G, the aperture *k* is provided, which aperture is properly closed by the screw *k'* or its equivalent.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a ditching jack, the combination of the tube A, having attached thereto the head or disk B, and provided with the screw-threaded portion *b*, the screw-threaded shaft C, engaging the screw-threaded portion *b*, the tube D, provided with the flange E, having the ears *d*, the pivoted handles *e*, the oil chamber

or receptacle G, located in the tube A, and the pivoted head or disk F, substantially as and for the purpose specified.

2. The combination of the tube A partially located within the tube D, and provided with the screw-threaded portion *b*, the screw-threaded shaft C, secured to the tube D, and the tube D provided with the shear end *f*, substantially as and for the purpose specified.

3. The combination of the tube A, and the tube D, one located partially within the other, and the inner tube provided with a screw-

threaded portion, and an oil receptacle, a screw-threaded shaft, provided with the angular head *c*, the pivoted handles *e*, the disks B and F, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ROSS RUE.

Witnesses:

F. W. BOND,

E. A. C. SMITH.