

(No Model.)

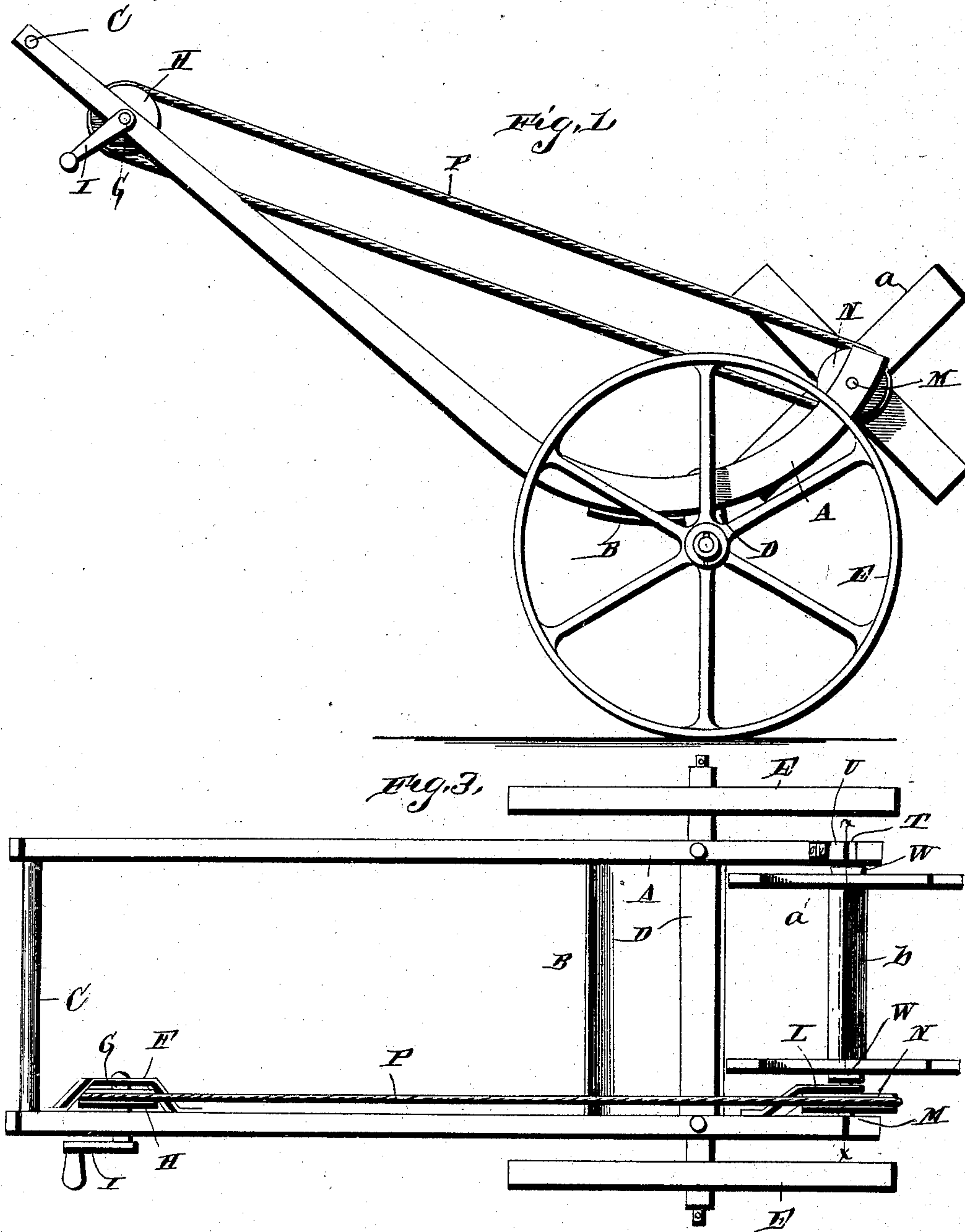
2 Sheets—Sheet 1.

W. L. WILSON & E. WALTON.

WIRE REEL.

No. 388,383.

Patented Aug. 21, 1888.



Witnesses.

C. B. Taylor,
J. W. Garner

Inventors.

William L. Wilson,
Edward Walton,

By *their* Attorneys

C. A. Snow & Co.

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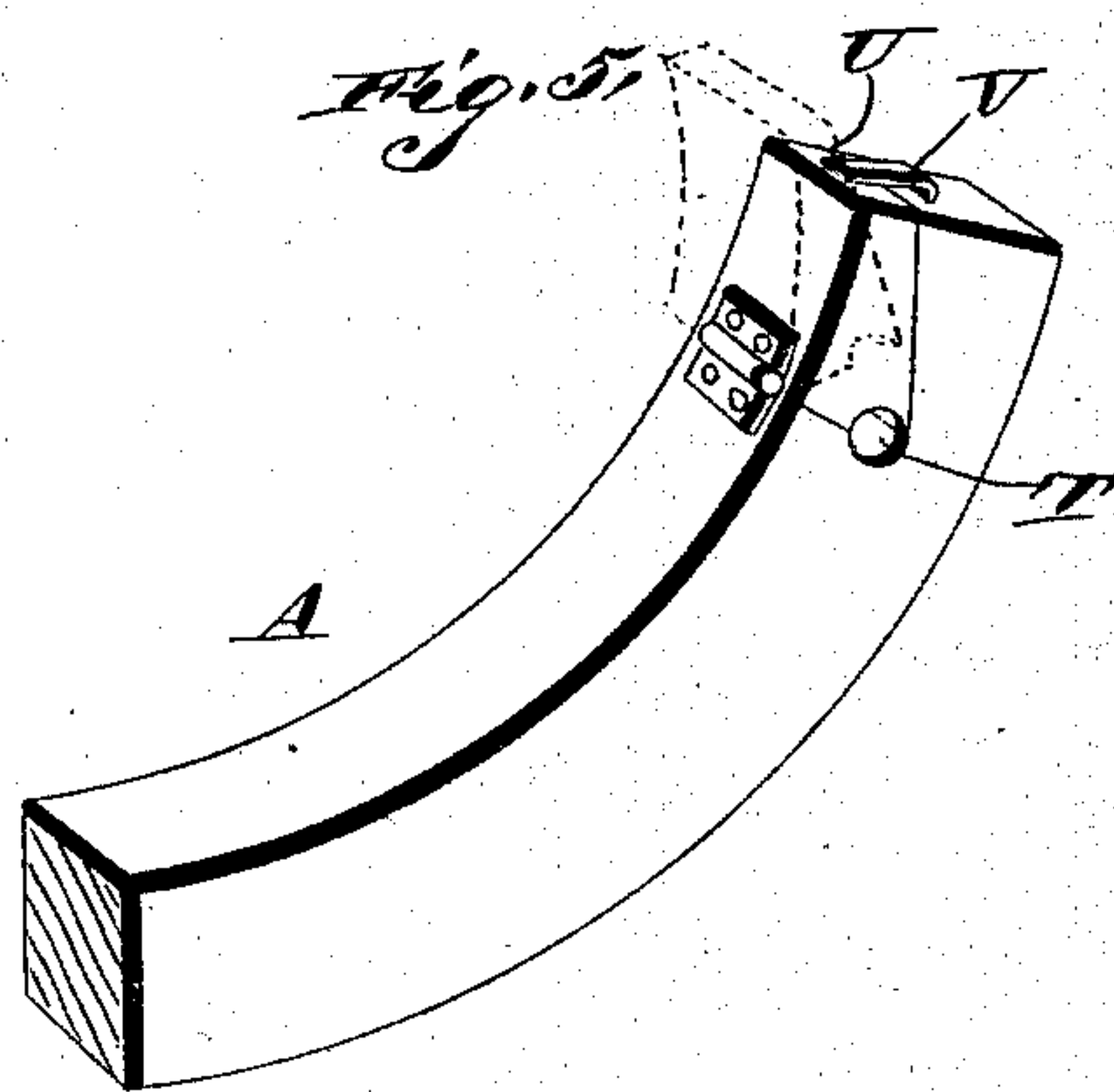
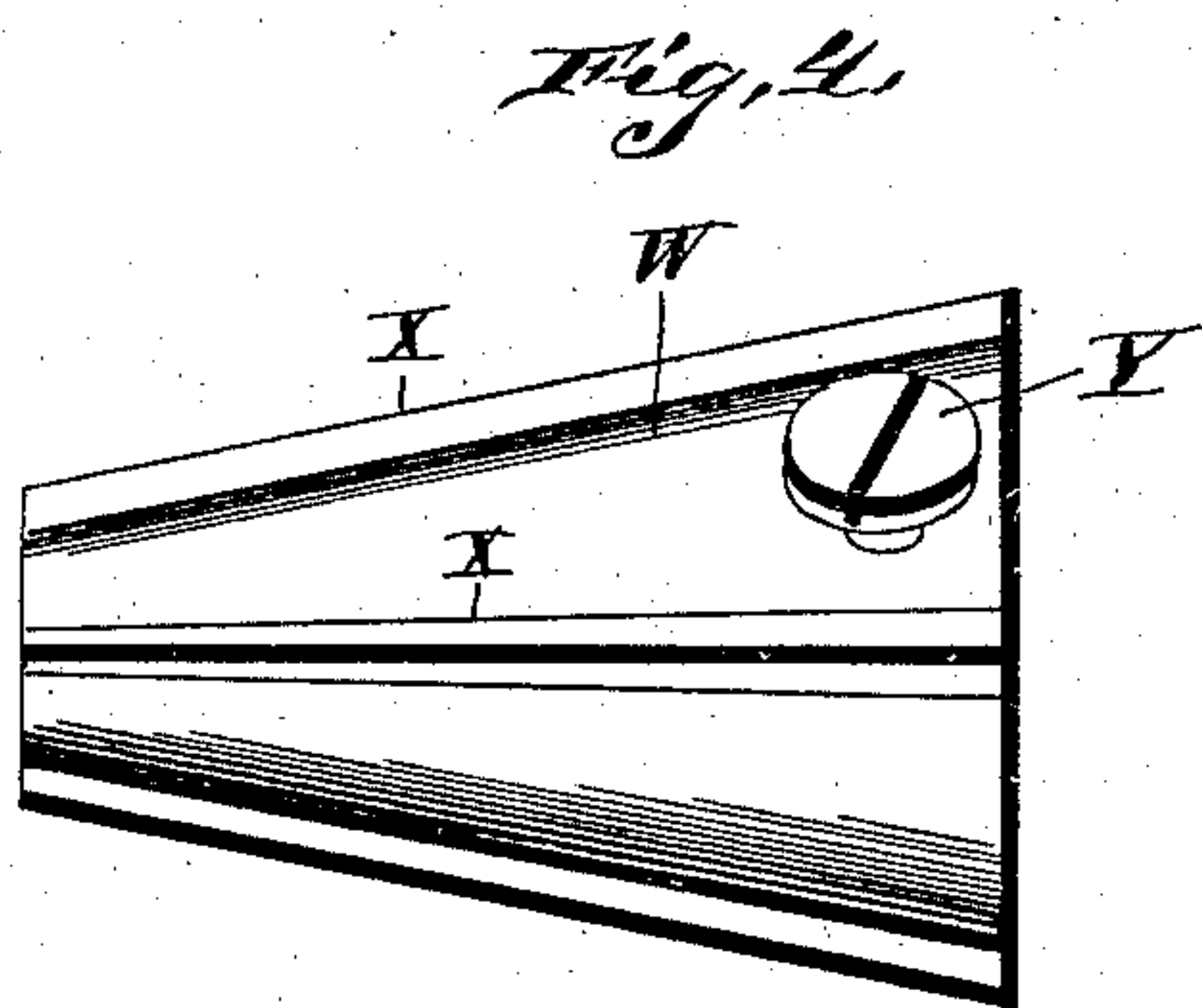
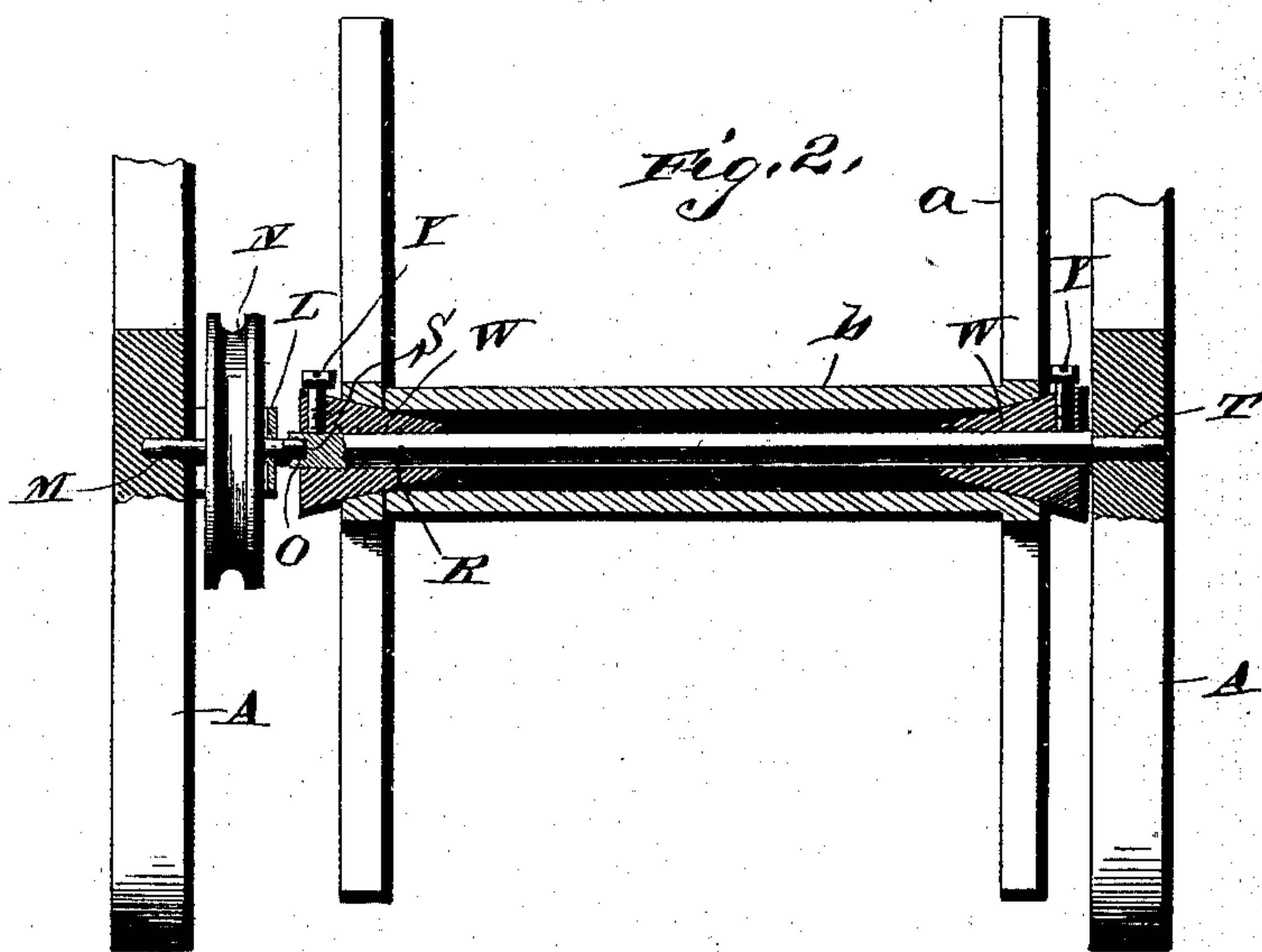
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UNITED STATES PATENT OFFICE.

WILLIAM LINDSEY WILSON AND EDWARD WALTON, OF CHARITON, IOWA,
ASSIGNORS OF ONE-THIRD TO WILLIAM D. WILSON, OF SAME PLACE.

WIRE-REEL.

SPECIFICATION forming part of Letters Patent No. 388,383, dated August 21, 1888.

Application filed April 9, 1888. Serial No. 270,021. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM LINDSEY WILSON and EDWARD WALTON, citizens of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Improvement in Wire-Reels, of which the following is a specification.

Our invention relates to an improvement in reels for winding and unwinding barbed and other wire; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

The object of our invention is to provide a machine which is adapted to take up and reel wire lying on the ground without stretching the same, and which is adapted to unreel wire as it is fastened to posts to make a fence, or for other purposes.

In the accompanying drawings, Figure 1 is a side elevation of a reel embodying our improvements. Fig. 2 is a vertical transverse sectional view taken on the line $x x$ of Fig. 2. Fig. 3 is a top plan view of the same. Fig. 4 is a detached elevation of one of the cones to secure a spool to the winding-shaft. Fig 5 is a detached perspective view of the bearing for one end of the winding-shaft.

A represents a pair of side bars, which have one end curved upward, as shown. The said bars are connected on their under sides, near their curved ends, by a concavo-convex transverse plate, B, and said bars are connected at their rear ends by a transverse rung or rod, C. The said bars, plate, and rung constitute the main frame of the machine.

D represents an axle, which is bolted or otherwise secured to the under sides of the bars A, and bears against the front side of the plate B, said axle, in connection with the said plate, forming a receptacle for holding such tools and materials as are needed in building wire fences. Wheels E, of suitable size, are journaled on the projecting spindles of the axle, and serve to support the frame and enable the machine to be trundled from place to place when in operation.

On the side of one of the bars A, at the rear end thereof, is secured a yoke, F.

G represents a short transverse shaft, which

is journaled in the said yoke and in the bar, and is provided with a sprocket or other wheel, H.

To the projecting outer end of the shaft G is secured a crank-handle, I, by means of which the shaft and its sprocket or other wheel may be rotated.

L represents a yoke, which is similar to the yoke F, and is secured to the side of the same bar, A, at the front end of said bar.

M represents a short transverse shaft, which is journaled in the yoke L and in the bar A, and is provided with the sprocket or other wheel N, and has its inner end squared, as at O.

P represents an endless chain, rope, or belt, which connects the wheels H and N, and is adapted to transmit the rotary motion of the shaft G to the shaft M.

R represents a shaft, which is provided at one end with an opening, S, adapted to receive the squared end of the shaft M. The opposite end of the shaft is journaled in a bearing, T, at the front end of one of the bars A. The said bearing has a hinged block, U, which is adapted to be opened, so as to permit the shaft to be lifted from the bearing, and a spring-hook or other device, V, is provided to lock the hinge-block U when the latter is closed on the shaft.

W represents a pair of cones, which are provided with central longitudinal openings adapted to receive the shaft R. The said cones are arranged on the said shaft with their smaller ends toward each other, and said cones are provided with peripheral radially-projecting engaging-ribs X, and have set-screws Y, by means of which the cones may be secured to the shaft R at any desired adjustment.

a represents a spool such as are commonly employed for coils of barbed wire to be used for fencing purposes, the said spool having its sleeve or shaft b hollow and adapted to receive the shaft R.

The operation of our invention is as follows: In order to reel up a wire which is lying on the ground, the shaft R is first passed through the hollow shaft of the spool, the cones are placed on the said shaft R and driven into the bore of the spool, so as to cause the ribs X to impinge firmly against the same and thereby

firmly secure the spool to the shaft R, and the screws Y are caused to clamp the shaft R, so as to secure the cones in position thereon. The shaft is then journaled in the bearing T, and has its socketed end engaged with the shaft M. One end of the wire is then attached to the shaft R of the spool, and the operator grasps the rung C with one hand and grasps the crank-handle I with the other hand and rotates the said crank, thereby causing the spool to revolve, as will be very readily understood. As the spool revolves, the wire is coiled thereon, and the operator pushes the machine before him as the wire is coiled until the spool is full.

The invention is also adapted for use in unreeling wire as the same is attached to the fence-posts, and this is done by rotating the crank-shaft at a sufficient rate of speed to cause the wire to unreel as fast as it is secured to the posts, the machine being of course drawn along in a line parallel with the proposed fence-line while the wire is being unreeled.

Having thus described our invention, we claim—

1. The combination of the frame, the shaft M, journaled in one side thereof, the shaft R, journaled in line with shaft M and having one end detachably connected thereto, said shaft R being adapted for the attachment of a reel or spool, and means, substantially as described, to rotate the shaft M, substantially as set forth.

2. The combination of the frame, the shafts G M, journaled therein, the wheels or pulleys and chains or belts connecting said shafts, said shaft G having crank I, the shaft R, having one end journaled in the frame and having its opposite end detachably secured to shaft M, the spool α on shaft R, and the collars secured to said shaft and engaging the spool, substantially as described.

3. The combination of the frame, the shafts G M, journaled therein, the sprocket or other wheels and chain, rope, or belt connecting the said shafts, the shaft R, having one end journaled in the frame and having its opposite end detachably secured to the shaft M, and the spool α , secured to the said shaft R, substantially as described.

4. In a wire-reel, the side bars, A, having the upward-curved ends, the axle D, secured to the under side of the said bars in advance of the curved ends thereof, the reel-shaft and reel mounted in the curved ends of the side bars above and in rear of the axle, and the wheels mounted on the axle, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

WILLIAM LINDSEY WILSON.

EDWARD WALTON.

Witnesses:

C. A. NOBLE,

M. GETTE.