(No Model.)

H. C. LYONS.

REEL FOR FENCE WIRE.

No. 325,616. Patented Sept. 1, 1885.

Fig. 1.

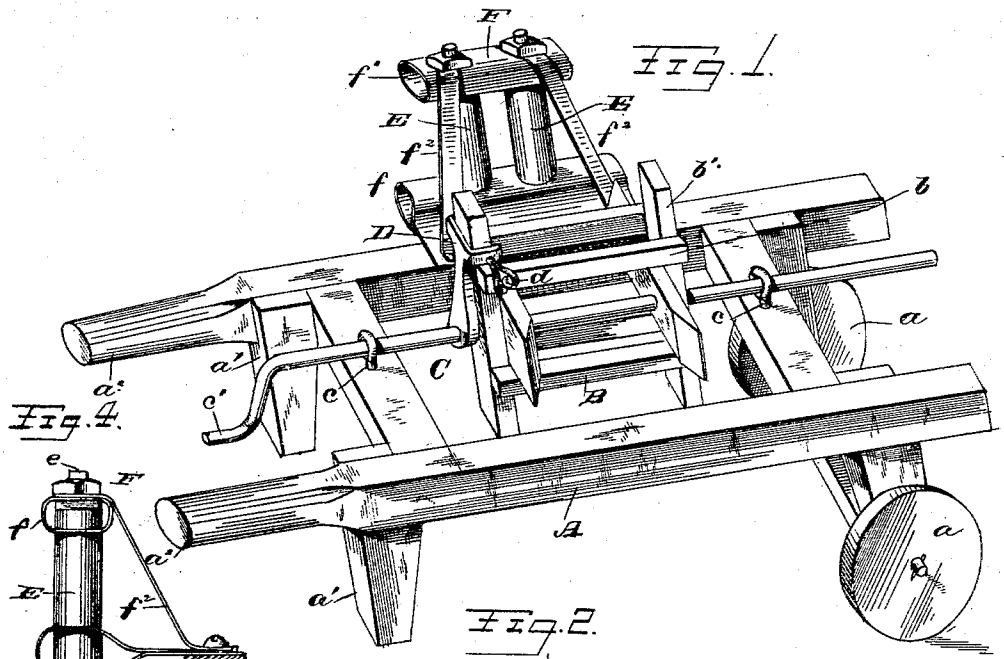


Fig. 4.

Fig. 2.

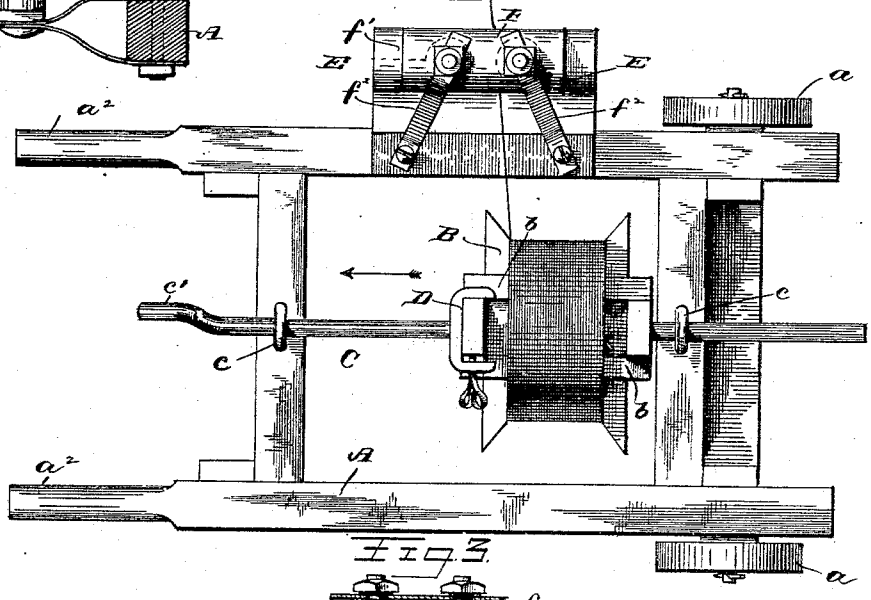
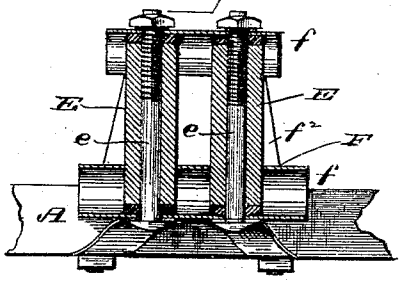


Fig. 3.



Witnesses:

L. A. Chamberlain Jr.

W. A. Gaines.

Inventor:

Horace C. Lyons

by L. Deane

Attorney

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

HORACE C. LYONS, OF BROOKFIELD, MISSOURI.

REEL FOR FENCE-WIRE.

SPECIFICATION forming part of Letters Patent No. 325,616, dated September 1, 1885.

Application filed June 20, 1885. (No model.)

To all whom it may concern:

Be it known that I, HORACE C. LYONS, a citizen of the United States, residing at Brookfield, in the county of Linn and State of Missouri, have invented certain new and useful Improvements in Reels for Fence-Wire, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a perspective view of this device. Fig. 2 is a plan view showing the reel full of wire and beginning to be unwound. Fig. 3 is a detail in section of the guide-rollers. Fig. 4 is a detail in side elevation of the guide-rollers.

This invention belongs to that class of devices designed for winding barbed or other fence-wire upon, or from which it may be unwound; and the novelty in the present instance consists in the combination and construction of the several parts, all as will now be more fully set out and explained.

In the accompanying drawings, A represents the carriage or barrow body, having wheels *a* in front, legs *a'* in the rear, and handles a^2. By means of this carriage the reel B can be easily moved about, as desired. This reel is placed on the crank-shaft C, which is journaled in any suitable way, as at *c c*, to or in the frame of the carriage, and has at its rear end handle *c'*. By moving the shaft C out of its front bearing the reel can, when released from the clamp-arm D, be easily taken off its shaft, and when off can be as easily put on again. It is held firm in the arm D, fixed to the shaft by set-screw *d*.

The reel may be of any suitable pattern or make, so long as it is provided with a central core, *b*, and side arms, *b'*.

In unreeling or reeling the barbed fence-wire the line of wire passes between the vertical guide-rolls E, which are placed in the frame F, attached to either side of the carriage and in front of the reel, but readily detached and applied to any desired place on the frame. This frame consists of a base, *f*, top *f'*, and connecting vertical strips f^2. The ends of shafts *e* of the rolls are suitably journaled at top and bottom in the pieces *f'* and *f* of this frame. Between the rolls is a vertical space for the wire, corresponding in length to the length of the rolls. This is adapted for the amount of wire on the reel. When the reel is full, the line goes out near the top of the space between the rolls, and when it has nearly been unwound it goes out near the bottom.

The reel can during the winding or unwinding be easily pushed back or forth, so that the wire shall run straight from it between these rolls.

I am aware that it is not broadly new to provide a carriage for transporting a barbed-wire reel which is suitably mounted thereon.

This device is especially designed to be used for reeling wire off the original spool as it is put on the fence, or for reeling wire back on the original spool as it is taken off the fence. It can be used without wheels by setting the frame on its legs inside an ordinary farm-wagon box. It can be used by setting the back legs or supports of the frame into mortises of the detached axle and then putting upon the axle the wheels of a corn-cultivator or other farming implement that any farmer may have, or wheels especially for the reel may be provided. When thus arranged, it is operated by one man walking between the handles, holding one handle with the left hand and turning the crank with the right, or vice versa. The tension of the wire as it is wound on the spool draws the reel along on the wheels.

Having now described my invention, what I wish to secure by Letters Patent is—

1. In combination with the carriage provided with guide-rolls on the side of the frame, a movable shaft extending parallel with the sides of the frame and the handles, and a reel secured thereto through eyebolts *c c*, so that it can be easily detached when desired.

2. The carriage A, as described, the imperforate curved crank-shaft C, journaled in the eyebolts *c c*, reel B, clamp D, secured to the shaft C, set-screw *d*, frame F, and vertical guide-rolls E, all combined substantially as and for the purposes set forth.

3. In a device as described, the reel B, secured on the crank-shaft C by the clamp D, and the set-screw *d*, combined with the verti-

cal guide-rolls E, secured on the side of frame A, substantially as and for the purposes described.

4. In a reel for fence-wire, the carriage provided with a pair of friction-rolls, and with side and cross pieces and a wheel, in combination with a crank-shaft loosely journaled in said carriage parallel with the side pieces, whereby the wire may be fed or wound up from the side of the carriage, as set forth.

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

HORACE C. LYONS.

Witnesses:

W. H. BROWNLEE,

GEO. N. ELLIOTT.