(No Model.)

J. F. HANNA.

STRETCHING TRUCK FOR FENCE WIRE SECTIONS.

No. 345,966. Patented July 20, 1886.

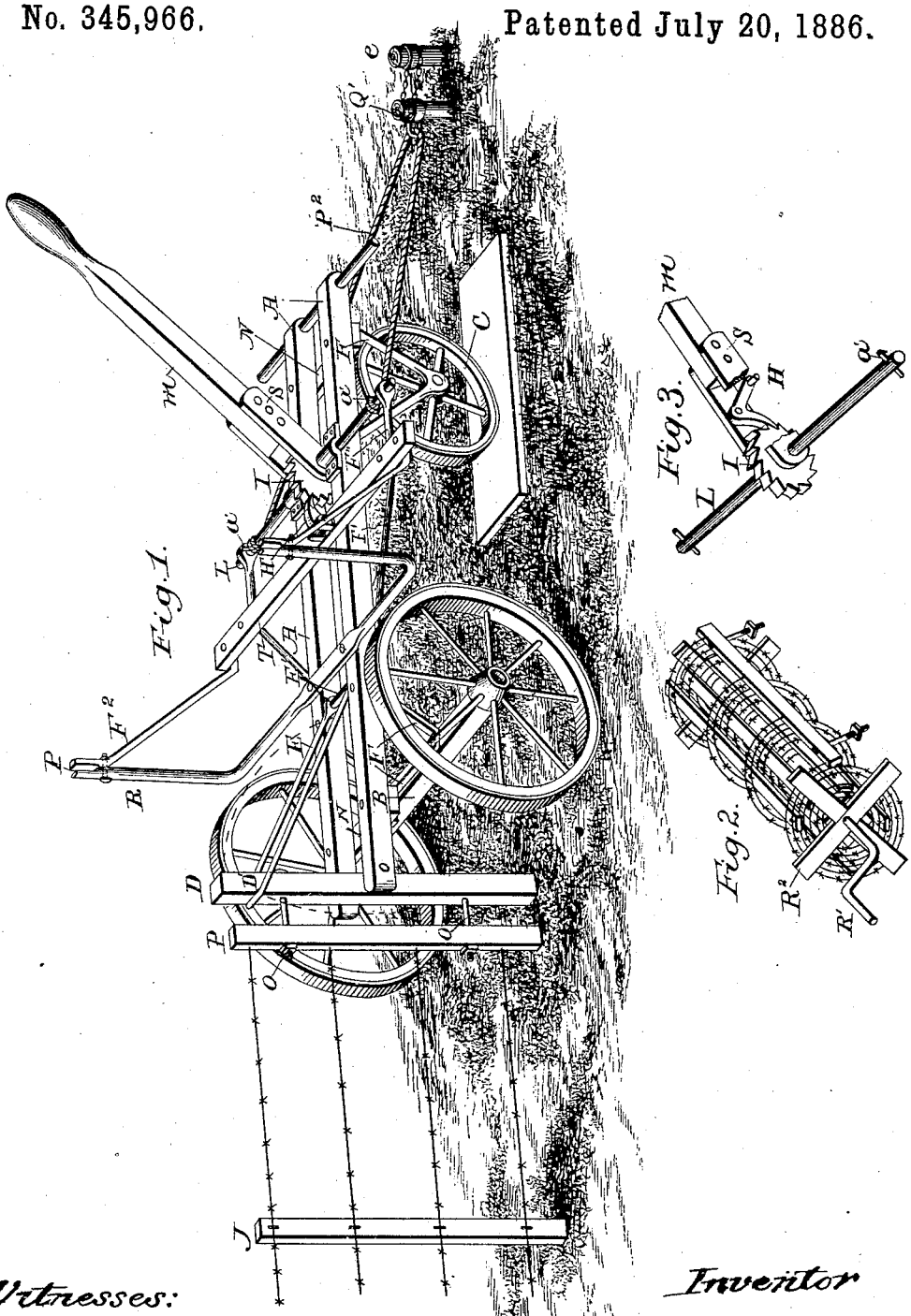

Fig. 1.

Fig. 3.

Fig. 2.

Witnesses:
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JOHN F. HANNA, OF NEAR MOMENCE, ILLINOIS.

STRETCHING-TRUCK FOR FENCE-WIRE SECTIONS.

SPECIFICATION forming part of Letters Patent No. 345,966, dated July 20, 1886.

Application filed September 21, 1885. Serial No. 177,785. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. HANNA, a citizen of the United States, residing near Momence, in the county of Kankakee and State of Illinois, have invented a new and useful Stretching-Truck for Fence-Wire Sections, of which the following is a specification.

My invention relates to improved trucks for wired fence-sections; and the object of my invention is to provide a new and useful fence-wire stretching-truck that can be used conjointly for rolling up on spools, conveying, unrolling, and stretching lengthy sections for portable and stationary wire fences. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of a two-wheeled truck supplied with a single rest-wheel, with a frame carrying a pivoted upright attached to the end of a fence-section with bolts, also a spool-frame, ratchet-wheel and shaft, lever and pawls, with attached rope, link, and stakes. Fig. 2 represents one section for a wire fence rolled upon a spool with crank-shaft attached rigidly. Fig. 3 is a detailed view of the shaft, ratchet-wheel, pawl, and plates, one plate being partly broken away.

Similar letters and figures refer to similar parts throughout all the views.

The truck-frame A, supporting the spooling and stretching devices, is constructed from two lengthy pieces of timber and two short stay-pieces, N, bolted together, which frame is connected to the truck-axle B by two braces F, and to rest-wheel C by two other metal braces, F, inclosing the said wheel-shaft. The upright D of the stretching device is connected with the bolts O O of the end of fence-section P, as represented in Fig. 1, and is pivoted between the long pieces of frame A by a bolt, serving as a hinge, and which passes through said frame and upright, a little below the center draft or strain upon the section-wires, causing the greater part of the draft to be in contact with the braced part of said pivoted upright, also facilitating the said upright in turning down on frame A in the direction indicated by dotted lines in the drawings, to render feasible the rolling or unrolling of the section from the spool over the end of the machine on the line of ground for the fence when mounted upon the spool-frame R. The clevis-shaped brace E is connected to pivoted upright D by a notch, D′, for resisting the strain from the section-wires and staying said upright in vertical position, the lower ends of brace E having eyes E′ and pivoted by a bolt passing through said frame A, and so that when said brace is detached from the notch D′ it can be turned on frame A in the direction indicated by dotted lines in the drawings. The wooden cross-bar T is secured to frame A with bolts, and said bar supports the two metal braces F′, the braces F′ having eyes F″ on their ends connecting with shaft L, and said bar also supports the spool-frame braces F^2, that stay the two vertical arms thereof. It also supports the pawl H′ operating with the ratchet-wheel I. The spool-frame of metal is connected to frame A with bolts, and has two vertical arms securely connected with the braces F^2, the two ends of said braces projecting alongside of the said vertical arms, thereby forming bearings for the shaft R′ of the spool. The shaft L is connected with the ratchet-wheel I and operates as a windlass for rope P^2 and the shaft is attached to frame A with metal boxing and bolts, the ends of said shaft entering the eyes F″ of braces F′. The lever *m*, of wood, is connected with two metal plates, S, bolted to said lever. The lower ends of the plates encircle the shaft L on each side of the ratchet-wheel I and the pawl H works between the said plates operating in the ratchet-wheel I. The rope P^2 passes through a link attached to a stake-ring and is connected to shaft L by keys *a′* passing through the two ends of the rope P^2 into shaft L for coiling the ends of said rope around the said shaft.

To operate my fence-section stretching-truck, the pivoted brace E is detached from notch D′ of the pivoted upright D, and both brace and said upright are conveniently turned down on or inside the frame A. Then the spool of fence-section, wound thereon with the rigidly attached crank-shaft R′, is mounted upon spool-frame R. The fence-section is then unrolled from the spool over the end of the machine (by moving the truck and turning the crank-shaft) on line of ground for fence. Then the pivoted brace E and upright D are readjusted to their vertical upright positions, and the bolts O O of the fence-section end are attached to the pivoted upright D, the rope P^2 con-

nected with the link of the stake-ring, the two stakes driven into the ground and stayed with a chain, as represented in Fig. 1, and then by working the lever *m*, which operates the ratchet-wheel I and shaft L, both ends of rope P^2 are coiled around said shaft, thereby stretching the lengthy section of a fence to any desired tension.

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

1. The frame A, having suitable wheels and provided with the pivoted upright D, pivoted brace E, and spool-frame R, all constructed and arranged as shown and described.

2. The frame A, having suitable wheels and provided with a pivoted upright, D, and a shaft, L, ratchet-wheel I, lever M, and rope P^2, all combined as shown and described.

3. The truck-frame A, having suitable wheels and provided with a cross bar, T, shaft L, spool-frame R, the frame and bar being connected by braces F^2, which at their upper ends form, in connection with the frame, bearings for the crank-shaft of the spool, and the bar T, carrying the braces F′, that have eyes to receive the ends of shaft L, all constructed as shown and described.

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