(No Model.) 2 Sheets—Sheet 1.

R. H. IRVINE & A. T. ANDERSON.

MACHINE FOR MOVING WAGON BEDS OR WIRE STRETCHER.

No. 526,231. Patented Sept. 18, 1894.

Fig. 1.

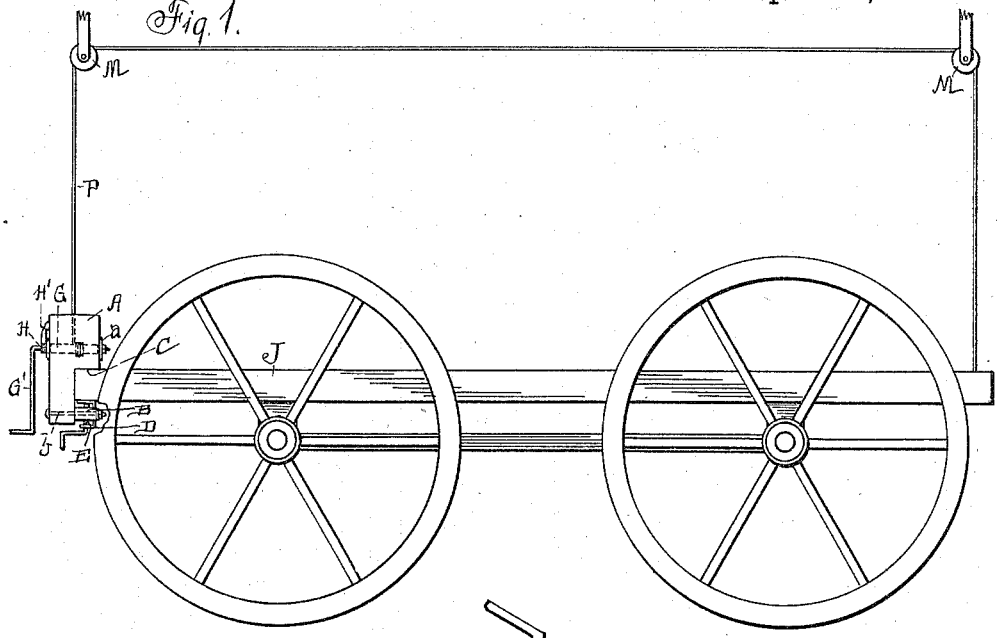

Fig. 2.

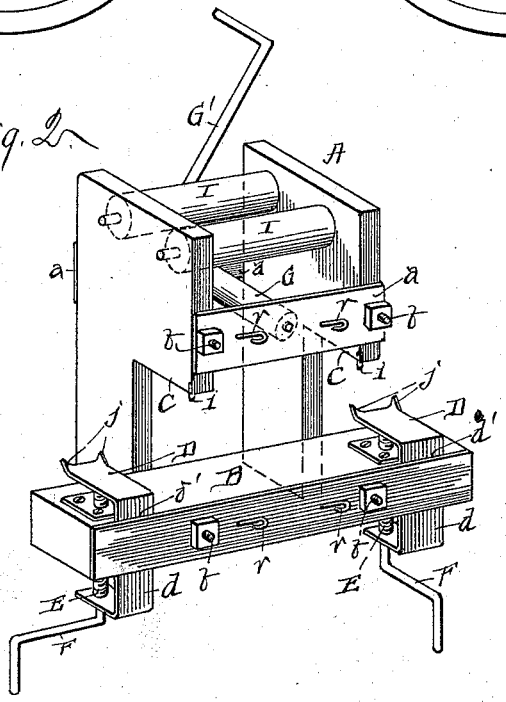

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Fig. 3.

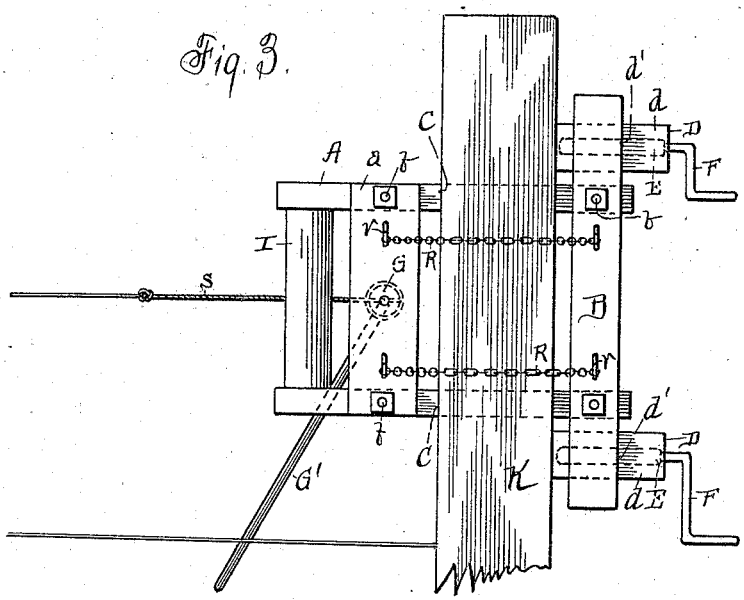
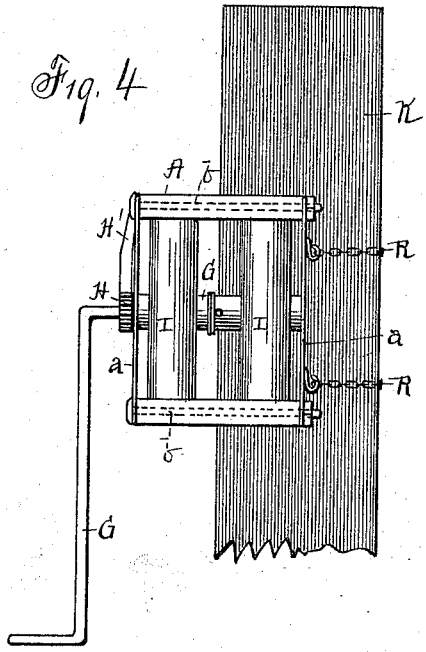


Fig. 4



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UNITED STATES PATENT OFFICE.

ROBERT H. IRVINE AND ANDREW T. ANDERSON, OF CONWAY, MISSOURI.

MACHINE FOR MOVING WAGON-BEDS OR WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 526,231, dated September 18, 1894.

Application filed May 8, 1894. Serial No. 510,533. (No model.)

To all whom it may concern:

Be it known that we, ROBERT H. IRVINE and ANDREW T. ANDERSON, citizens of the United States, and residents of Conway, in the county of Laclede and State of Missouri, have invented certain new and useful Improvements in Machines for Moving Wagon-Beds and Wire-Stretcher Combined; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation of invention applied to a wagon. Fig. 2 is a perspective view of the invention. Fig. 3 is a front view of invention applied to a post. Fig. 4 is an end view of same.

This invention has relation to certain new and useful improvements in combined hoisting and wire stretching machines, and it consists in the novel construction and combination of parts, all as hereinafter described and pointed out in the accompanying claims.

An object of the invention is to provide a simple, practical, and efficient machine designed for hoisting various objects, and more especially for moving wagon beds onto and off from the running gear. A further object is the provision of a machine of this character also adapted for use as a wire stretcher.

Referring to the accompanying drawings, Fig. 1 illustrates my invention as applied to a wagon bed for the purpose of moving same.

The letter A designates the frame of my machine, which consists of a pair of parallel side pieces connected to each other by means of suitable cross pieces *a*, *a*, near one end, and by a cross-bar B, near the other end, said cross pieces and bar being usually secured by bolts *b*, although other suitable means may be employed.

For about one half of their length the side pieces A are of reduced width forming the square shoulders C, C, whose horizontal walls are immediately over and parallel with the upper face of the cross bar B.

D, D, designate clamps carried one by each end portion of the cross bar B, and comprising each a C-shaped piece, the vertical portion *d* of which is slidable in a guide *d'* of said cross bar. Engaging the lower arm of said clamp is a screw E, which has a threaded bearing in the cross bar, and which at its upper end bears against the upper arm of the clamp. The lower end portion of the screw is provided with a crank F, which may if desired be integral with the screw. By the operation of these cranks, the clamps may be moved toward or away from the shoulders C, C.

G designates a winding drum or cylinder, which has bearings in the cross pieces *a*, *a*, and which is provided with a crank G' of long radius and which is preferably integral with the drum or cylinder, the latter being usually though not necessarily of small diameter. Keyed to the said drum or cylinder is a ratchet wheel H, engaged by a pawl H'.

I, I, are parallel rollers which are journaled in the upper end portion of the frame.

The machine is clamped on the rear end of the wagon bed in the manner shown, the cross bar J of said bed being received between the clamp D, D, and the shoulders C, C, the said clamp preventing the screws from cutting into the wood of the bar. At *i*, *i*, on the shoulders and *j*, *j*, on the clamps, are small points or projections which engage the said cross bar and prevent any slipping.

One end portion of a rope P is looped around the front end portion of the wagon bed, the rope being thence passed up and over a pulley M supported over the front portion of the bed. From this pulley the rope is passed back and over a second pulley M supported over the machine, thence down and between the two rollers I, I, and is made fast to the drum or cylinder.

By turning the crank G' both ends of the bed will be simultaneously raised to the desired height, and the machine may be left on the bed until the latter is ready to be lowered.

It will be apparent that the arrangement described affords a great leverage so that a heavy bed may be raised with a small expenditure of power at the crank.

Figs. 3 and 4 show the device as applied when used as a wire stretcher, being made fast to a post *r* by means of the clamps and the chains R, secured to the hooks *v*. A piece of

rope S is made fast to the wire and to the drum or cylinder, and the stretching is effected by turning the crank G′.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a machine for the purpose described, the frame A having the shoulders C, C, the cross bar B, the ⊏-shaped clamps D, D, slidable in guides in said cross bar, the cranked screws for actuating said clamps, and having bearings in said cross bar, the drum or cylinder G, and its crank G′, substantially as specified.

2. In a machine for the purposes described, the frame A having the parallel side pieces reduced in width for a portion of their length and having the square shoulders C, C, the cross bar B connecting said side pieces below said shoulders, the clamp devices carried by said cross bar and arranged to co-operate with said shoulders, the drum or cylinder journaled in said frame at right angles to said cross bar, and the hooks *v* on said cross bar and on an upper bar parallel therewith, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

ROBERT H. IRVINE.
ANDREW T. ANDERSON.

Witnesses:
G. W. ORTEN,
DELMER MARLIN.