

No. 810,512.

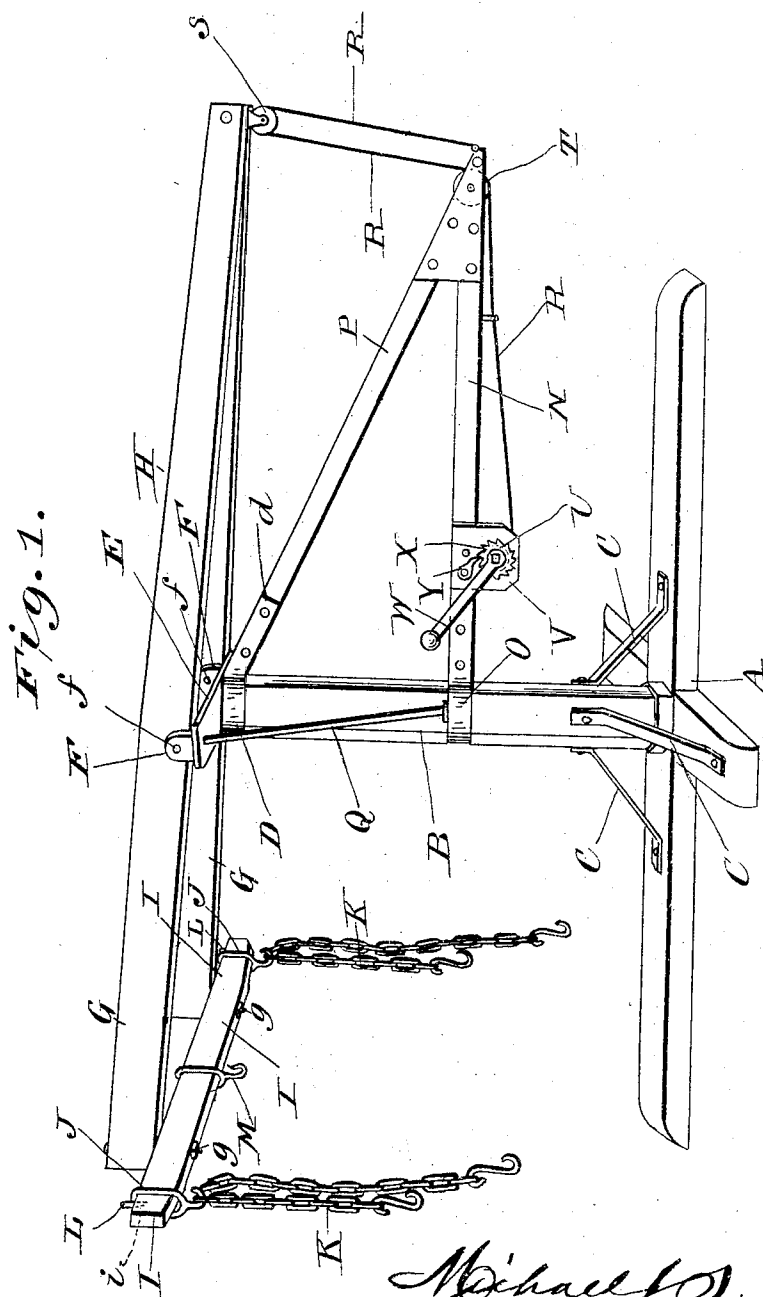
PATENTED JAN. 23, 1906.

M. J. SASGEN.

WAGON BOX AND HAY RACK LIFTER.

APPLICATION FILED SEPT. 20, 1904.

2 SHEETS—SHEET 1.



Witnesses
Jas. H. Blackwood
W. Randolph Jr.

Inventor
Michael J. Dasgen
By *L. A. Gourick*
Attorney

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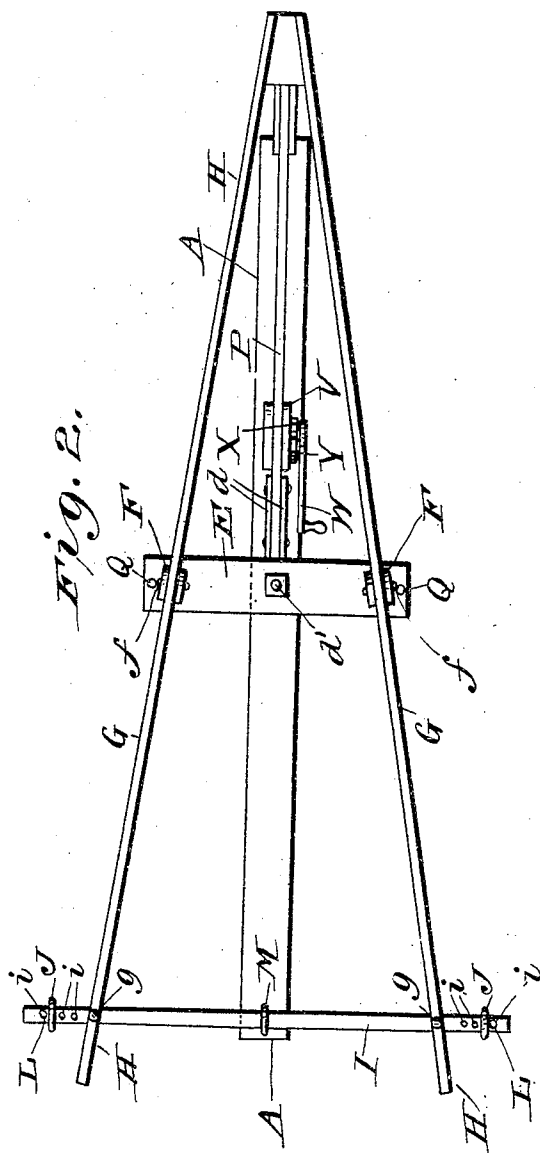


Fig. 4.

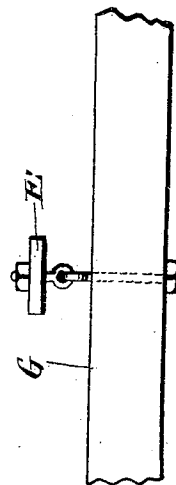
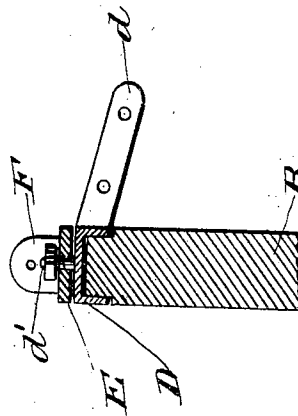


Fig. 3.



Witnesses
Jas. H. Blackwood
J. Randolph, Jr.

Michael J. Sasgen *Inventor*
D. A. Gourick *Attorney*

UNITED STATES PATENT OFFICE.

MICHAEL J. SASGEN, OF ST. MATHIAS, MINNESOTA.

WAGON-BOX AND HAY-RACK LIFTER.

No. 810,512.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed September 20, 1904. Serial No. 225,284.

To all whom it may concern:

Be it known that I, MICHAEL J. SASGEN, a resident of St. Mathias, in the county of Crow Wing and State of Minnesota, have invented certain new and useful Improvements in Wagon-Box and Hay-Rack Lifters, of which the following is a specification.

My invention relates to devices for raising and supporting wagon-boxes and hay-racks, and has for its object the provision of means by which the lifting device is rotatably mounted on an upright support, so that, if desired the wagon-box or hay-rack may be swung around after being raised from the wagon running-gear and deposited in any position within the circle described by my lifting device. I accomplish this by means of the structure described hereinafter and illustrated in the accompanying drawings, in which—

Figure 1 is a side view in elevation of my invention; Fig. 2, a top plan view; Fig. 3, a detail view of the top of the standard and means for revolvably securing the lifting-lever thereon, and Fig. 4 a view showing a modification of the means for pivoting the arms of the lifting-lever.

In the drawings similar reference characters indicate corresponding parts throughout the several views.

A represents a base, preferably made of two crossed timbers, on which is mounted an upright post B, braced by rods C.

D represents an inverted-cup-like cap-piece on the top of post B, having ears *d* at one side and a pin *d'* at its top.

E represents a beam mounted for revolution on pin *d'*, having an angular bracket F secured at each end, in which are pivotally mounted the arms G of the triangular lifting-lever H by means of short shafts *f*. The third side of the triangular lever H consists of a beam I, secured to the ends of arms G by means of bolts *g*, which extends beyond the ends of said arms G and has mounted thereon rings J, carrying chains and hooks K or other suitable lifting devices. The extended ends of beam I are provided with holes *i* to receive pins L to adjust the position of rings J to the length of the wagon-body or hay-rack.

M represents a ring and hook mounted on the beam I between the ends of arms G to be used in butchering or for other purposes.

N represents an arm revolvably mounted on post B by means of a strap O, mounted in a circumferential groove in said post, and P a

brace-beam secured to the end of arm N and to ears *d* of cap D.

Q represents braces connecting strap O with the ends of beam E. Triangular lever H is actuated by means of a rope R, secured to brace-beam P, passed around pulley S, secured at the end of said triangular lever H, then around pulley T, journaled in the end of brace-beam P, and secured to drum U, journaled in boxing V, secured on arm N. Drum U is actuated by means of a crank W, X and Y being a ratchet-wheel and pawl to hold the drum in any desired position.

In Fig. 4 is shown a modification of the means for pivoting the lever-arms G to beam E, in which interlinked eyebolts are employed. Other means may be devised for this purpose, and I do not, therefore, limit myself to the specific means shown except where such limitation is contained in the appended claims.

It will be understood from the above description that my invention may be set up in any desired place and moved as often as desired and that the wagon-body or hay-rack may not only be lifted from the running-gear of a wagon, but may after being raised be swung around and lowered to the ground or onto the running-gear of another wagon, as desired.

Having thus described my invention, what I claim is—

1. In a lifting device, an upright post, a lever fulcrumed on the top of said post and revolvably mounted thereon, an arm revolvably mounted on said post, a drum suitably journaled, and a cable connecting said lever and drum, said arm and lever being connected for simultaneous swinging, substantially as shown and described.

2. In a lifting device, an upright post, a cap-piece revolvably mounted on the upper end of said post, an arm revolvably mounted on said post, a brace connecting said cap-piece and the free end of said arm, a lever fulcrumed on said cap-piece, a drum suitably journaled, and a cable connecting said lever and drum, substantially as shown and described.

3. In a wagon-box and hay-rack lifter, lever-arms suitably journaled, a lifting-beam secured to said arms and having its ends extended on each side of same, lifting devices mounted on said extended ends, and means to adjust said lifting devices on said ends, substantially as shown and described.

4. In a wagon-box and hay-rack lifter, an upright post, a triangular lever-frame suitably pivoted and revolubly mounted on said post, an arm revolubly mounted on said post and
5 arranged for simultaneous revolution with said lever-frame, and means secured to said arms for swinging said lever-frame, substantially as shown and described.

5. In a wagon-box and hay-rack lifter, an
10 upright post, a beam revolubly mounted on said post, a triangular lever-frame fulcrumed on said beam, an arm revolubly mounted on said post, a brace-bar connecting said arm and beam, a drum journaled on said arm, and a
15 rope connecting said lever-frame and drum, substantially as shown and described.

6. In a wagon-box and hay-rack lifter, an upright post, a beam revolubly mounted on said post, lever-arms fulcrumed on said beam,

a lifting-beam secured to the ends of said lever-arms and having its ends extended beyond the ends of said lever-arms, and holes in said extended ends, lifting devices adjustably mounted on said lifting-beam, pins to be inserted in the holes in said beam to hold said
25 lifting devices in their adjusted positions, an arm revolubly mounted on said post, a brace-rod connecting said revoluble beam and arm, a drum journaled on said arm, and a rope connecting said drum and the lever-arms, 30 substantially as shown and described.

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

MICHAEL J. SASGEN.

Witnesses:

JAMES BULEY,
THOS. MCINTYRE.