R. W. MARSHALL.
Wagon-Jack.

No. 207,363. Patented Aug. 27, 1878.

Fig. 1

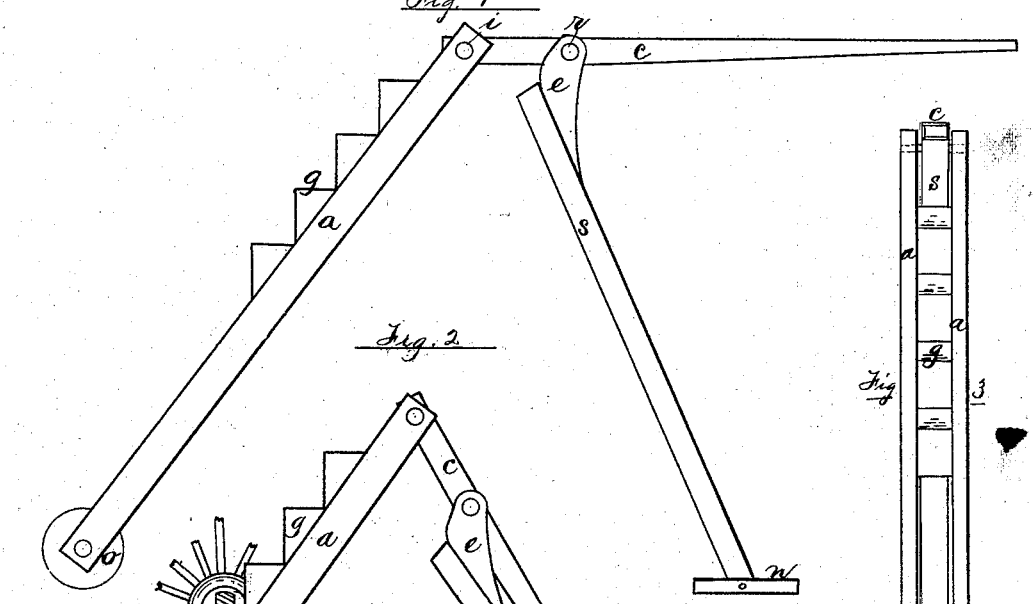


Fig. 2

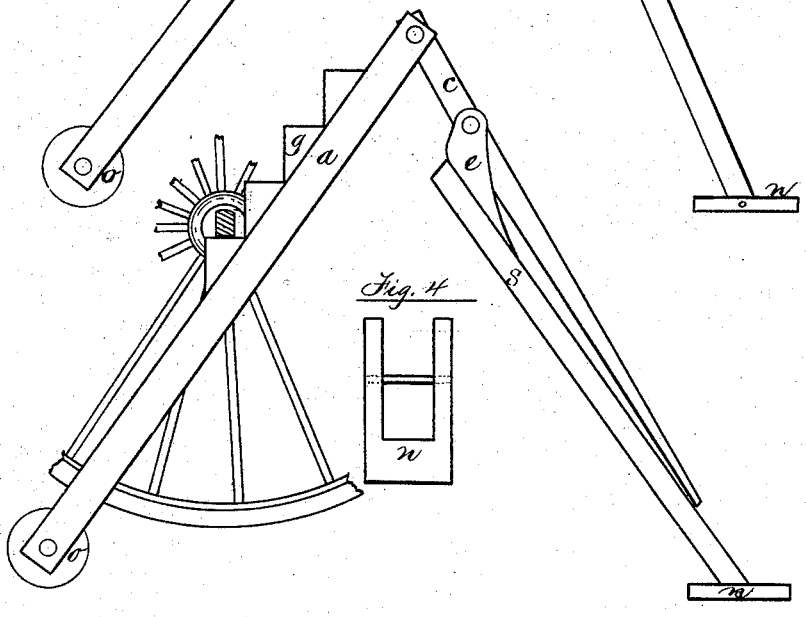
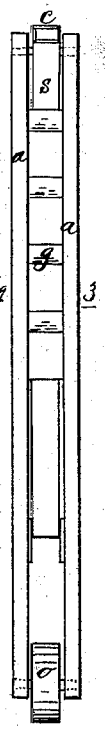


Fig. 4

Fig 3



Witnesses

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RALPH W. MARSHALL, OF JOLIET, ILLINOIS.

IMPROVEMENT IN WAGON-JACKS.

Specification forming part of Letters Patent No. **207,363**, dated August 27, 1878; application filed July 16, 1878.

To all whom it may concern:

Be it known that I, RALPH W. MARSHALL, of the city of Joliet, in Will county, State of Illinois, have invented certain Improvements in Wagon-Jacks, the description and operation of which I will proceed to explain, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side elevation showing the jack open; Fig. 2, a side elevation showing the jack in operation; Fig. 3, a front elevation; and Fig. 4, a view of the adjustable foot.

The nature of my invention consists in the construction of a cheap, durable, and effective device for lifting vehicles, principally wagons and carriages, and so constructed as to be self-locking and to elevate the weight in a perpendicular direction.

In the drawings, *a* represents the lifting-leg of the jack, which is constructed by bolting two parallel pieces of wood firmly to the notched piece *g*, thus leaving a slot in either end, the upper slot to receive the lever *c* and the lower slot to receive the roller *o*, which, moving readily on the floor or ground, permits the weight to be raised perpendicularly and also increases the lifting power of the jack.

To the lever *c*, near the leg *a*, is pivoted the fulcrum-leg *s* by means of the slotted coupling-piece *e* attached to it by means of bolts and screws. The peculiar construction and attachment of the coupling-piece *e* is as follows. The lever *c*, being pivoted at a point above a parallel line with the fulcrum-leg *s*, renders the jack self-locking when the lever *c* is forced down until its lower end rests upon the fulcrum-leg *s*, near its foot, as shown in Fig. 2. To the lower end of the leg *s* is pivoted an adjustable foot, *n*, Fig. 4, which is to prevent the foot from being pushed into the ground. It is self-adjusting always in correct position, however uneven the ground or however much the angle of the leg *s* may change.

The whole device may be constructed of hard wood, except the slotted coupling-piece *e*, which is to be of metal.

Fig. 2 shows the jack with the weight raised and the lever locked by being brought down until the end strikes and rests upon the top of the leg *s*, the axle resting on one of the series of notches *g*. The roller *o* permits the lower end of the lifting-leg *s* to move forward a little while the lever is being pushed down, so the weight will not be shoved forward, but be lifted in a perpendicular direction. The roller is also useful in moving the jack from place to place and in shoving the lifting-leg *a* into position under the axle.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows, to wit:

The combination and arrangement of the parts *a* and *s*, lever *c*, slotted coupling-crotch *e*, roller *o*, and foot *n*, when arranged to operate in the manner and for the purposes set forth.

RALPH W. MARSHALL.

Witnesses:

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