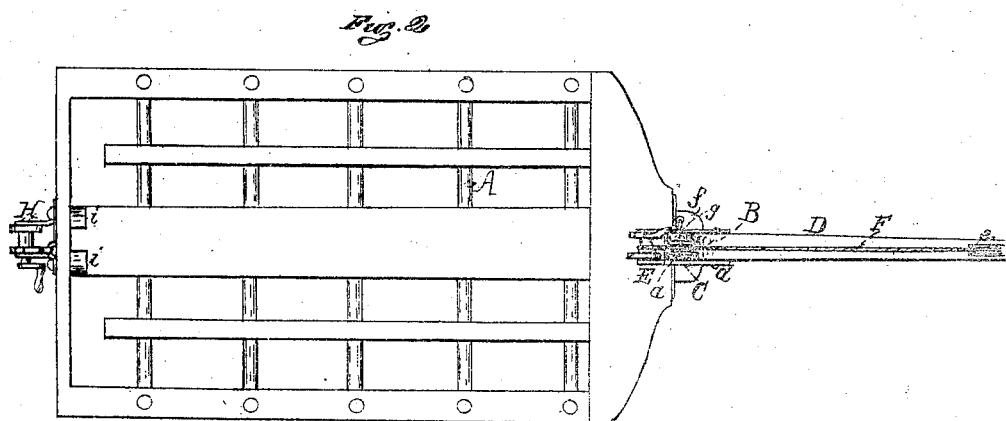
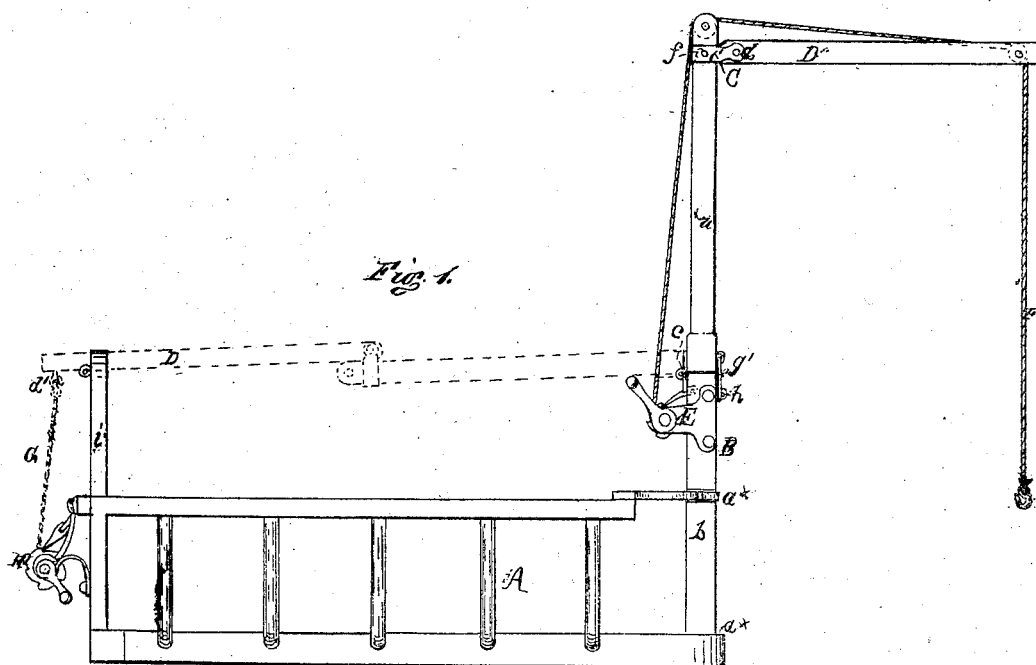


No. 45,865.

PATENTED JAN. 10, 1865.

S. ROGERS.

MEANS FOR LOADING AND UNLOADING HAY WAGONS, &c.



WITNESSES,

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IMPROVEMENT IN MEANS FOR LOADING AND UNLOADING HAY-WAGONS; &c.

Specification forming part of Letters Patent No. 45,865, dated January 10, 1865.

To all whom it may concern:

Be it known that I, SEYMOUR ROGERS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Loading and Unloading Device for Wagons; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved loading and unloading attachment for wagons, and has for its object facility in performing the work above specified, as well as the securing of the load on the wagon, as hereinafter fully set forth.

The description which follows, as well as the drawings accompanying the same, refer to the invention as applied to a hay-wagon.

A represents a rack placed on the wagon, and constructed in the usual or in any proper manner. At the rear end of the rack there is an upright, B, fitted in bearings *a*, arranged in such a manner that it may revolve. This upright is composed of two parts, *a* *b*, connected by a joint, *c*, to admit of the upper part, *a*, folding in a horizontal position over the rack A, as shown in red in Fig. 1.

On the upper part, *a*, of the upright B there is placed a metal slide or sleeve, C, to which an arm, D, is attached by a pin, *d*, and in the outer part of this arm, near its end, a sheave or pulley, *e*, is fitted. The slide or sleeve C is secured to the part *a* by means of a pin, *f*, and a series of holes may be made in *a* to admit of the slide or sleeve being secured higher or lower upon it, as may be desired.

Near the upper end of the lower part, *b*, of the upright B there is attached a windlass, E, to which a rope or chain, F, is attached, and this rope or chain passes over a pulley, *g*, in the upper end of *a*, and over the sheave or pulley *e*, at the outer end of the arm D.

When the device is used for loading or un-

loading, the part *a* of the upright B is secured in a vertical position by means of a hasp, *g'*, on *a*, fitting over a staple, *h*, in *b*, and the arm D is swung over, and the end of the rope or chain F attached to the article to be raised and placed in the rack. In loading hay, one of the usual hay-forks is attached to the rope or chain. The load is elevated by turning the windlass E, the arm D gradually rising until it reaches a horizontal position, as shown in Fig. 1. The upright B is then turned to bring the arm D and its load directly over the rack, the load being deposited thereon. The arm D is then turned outward, the fork lowered, and a succeeding load elevated and placed on the wagon, as before. In order to secure the load on the wagon, the hasp *g'* is moved off from the staple, and the part *a* of the upright B turned down over the load, and the arm D also turned over in a horizontal position, with its front part fitted in a guide formed of two uprights, *i* *i*, which are attached to the front end of the rack, and the end of a rope or chain, G, on a windlass, H, at the front part of the rack, is hooked into a staple, *d'*, or otherwise attached to the end of the arm D. By turning this windlass H the part *a* of the upright B and the arm D are made to press down upon the load and secure the same firmly on the wagon. In unloading, the part *a* of the upright B is adjusted in the same position as in loading, the arm D being turned over the load in order to fill the fork, and then swung around off from the wagon, and the fork lowered and emptied.

I claim as new and desire to secure by Letters Patent—

1. The turning upright B, placed at the rear part of the wagon, and composed of two parts, *a* *b*, connected by a joint, in combination with the windlass E, arm D, and rope or chain F, all arranged to operate substantially as and for the purpose herein set forth.

2. The same device for binding the hay on the wagon, in combination with windlass H.

SEYMOUR ROGERS.

Witnesses:

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