

(No Model.)

P. A. MYERS.
HAY CARRIER.

No. 532,984.

Patented Jan. 22, 1895.

Fig 2.

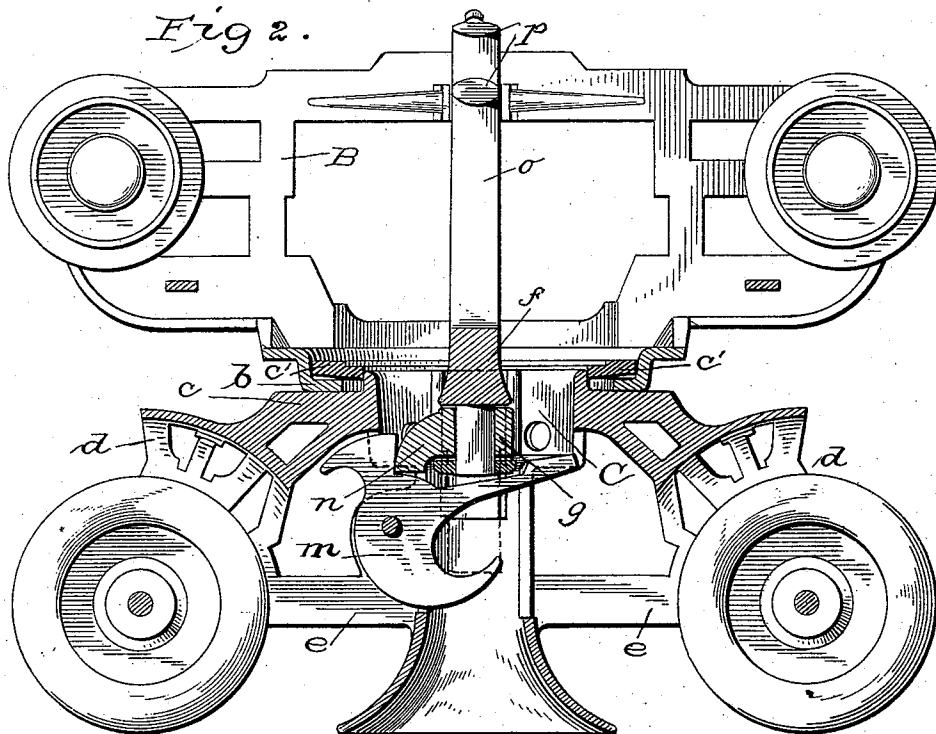
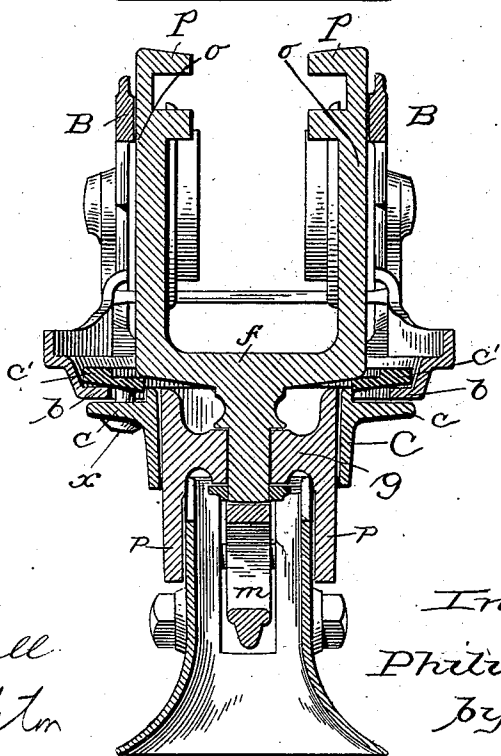


Fig. 1.



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UNITED STATES PATENT OFFICE.

PHILIP A. MYERS, OF ASHLAND, OHIO.

HAY-CARRIER.

SPECIFICATION forming part of Letters Patent No. 532,984, dated January 22, 1895.

Application filed June 21, 1894. Serial No. 515,265. (No model.)

To all whom it may concern:

Be it known that I, PHILIP A. MYERS, a citizen of the United States of America, residing at Ashland, in the State of Ohio, have invented certain new and useful Improvements in Hay-Carriers, of which the following is a specification.

In hay carriers as heretofore made, a certain type is provided with a reversible part, which carries the rope pulleys so that the carrier may be run in either direction on the same track. In hay carriers also, movable upon a track, it is necessary to provide a tripping mechanism, set in motion by the agency of the movable pulley, rising with the load, to release the carrier from the stop, by which it is detained.

My invention hereinafter set forth, includes both of these features. Its object is to simplify the construction and reduce the size of the lower part; to increase its strength and improve its operation. This object I accomplish with the construction hereinafter explained, in which the whole lower part of the carrier including the frame, which supports the pulley, and the bellmouth, in which the hook and dog are located and into which also, the extension of the movable block enters, are all swiveled upon the carriage and are preferably made in one piece.

In the particular form of tripping mechanism employed in this carrier, I have also made a change; the lower part of it being swiveled so as to turn with the lower part of the carrier. This form of tripping mechanism without the swivel in the arm, but with the same general form and connections with the knocker, and arrangement of knocker, is shown in Letters Patent of the United States, granted to me on the 5th day of January, 1892, and numbered 466,616.

My invention is illustrated in the accompanying drawings, in which—

Figure 1—shows a vertical transverse section of the carrier, and Fig. 2—a longitudinal section through the center of the carrier.

In the drawings B is the carriage, or the upper part of the carrier. In the central lower part of this carriage frame is a circular flange *b*, projecting inwardly around the opening, and upon this flange is supported the turntable C. The turntable has a lower flange

c, which bears against the lower surface of the flange *b*, and this is riveted as at *x* to a ring *c'*, which bears upon the upper surface of the flange *b*, so that the turntable is firmly secured to the carriage frame, and turns freely thereon, with less frictional surface, and smaller diameter, than in my aforesaid patent and with more convenient form for construction. The turntable comprises a flanged circular portion, the pulley frame and the bellmouth entrance. The bellmouth is rigid therewith, the whole being preferably cast in one piece. The frame of this lower part consists of two forked arms *d d*, the forks of which are preferably cast in skeleton form, as shown and serve also as rope guides; and the lower part of the frame is further braced by bars *e e*, which unite with the extremities of the forked arms, where are carried the supporting bolts for the pulleys. The bars *e e* unite with the bellmouth, which thus is made to form part of the frame. This construction renders the frame stronger with less metal than that shown in my aforesaid invention. The hook *m*, and the dog *n* are the same as shown in the said patent. The hook when down supports the dog and the arms *o*, and when the hook is up, the dog drops behind the shoulder of the hook and retains it in place with the supported load. The arm or arms *o*, have the prongs *p*, which engage with the cam tracks of the stop as shown in my said patent. The hook *m*, is pivoted in gears and moves in slots in the walls of the bellmouth. The arms *o*, are guided in holes in the turntable, as in my said patent. A single arm may be used, but I prefer two as shown.

In this construction, the main part, in fact almost the entire frame, may be cast in two pieces, no additional part being required to the frame except the ring, which supports the turntable.

In order to allow the lower part to turn the arm or arms *o*, of the tripping mechanism are not made rigid with the dog and with the lower guiding portions, as shown in my said patent, but the upper part is swiveled upon the lower. As shown, I have constructed the upper part with a cross-piece *f*, connecting the two arms *o*, and with a center depending stud, which is swiveled in a cross-piece *g*, carrying a dog *n*, the piece *g*, sliding vertically in guides in

the turntable. This permits the lower part to turn with the turntable and independently of the arms *o*. In the form shown I have made two inwardly projecting prongs on each arm *o*, instead of one, but these engage with the cam tracks in the same manner and with the same effect.

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

1. In a hay-carrier, a carriage arranged to move upon a rail, and a turntable connected therewith and carrying the pulley frame and bellmouth, combined with swiveled tripping mechanism, substantially as described.

2. In combination in a hay carrier, the carriage frame having the flange, the turntable having the rope pulleys and the ring engaging the flange of the carrier frame and means connecting it with the turntable, substantially as described.

3. In combination in a hay carrier, the carriage frame adapted to a track, the pulley frame swiveled thereto, the hook pivoted to the swiveled frame, the vertically movable arms to engage the cams on the track and the dog swiveled on said arms to engage the hook in all positions of the same.

4. In combination in a hay carrier, the carriage frame adapted to run on a track, the pulley frame swiveled thereto and having arms in which the pulleys are journaled, the bell mouth on the swiveled frame, the brace arms *e* between the bell mouth and the pulley supporting arms and the swiveled tripping mechanism, substantially as described.

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

PHILIP A. MYERS.

Witnesses:

W. O. McDOWELL,
F. B. KELLOGG.