R. H. BEAUMONT.

SHEAVE CARRIER.

APPLICATION FILED APR. 13, 1920.

1,348,691. Patented Aug. 3, 1920.

Fig. 2.

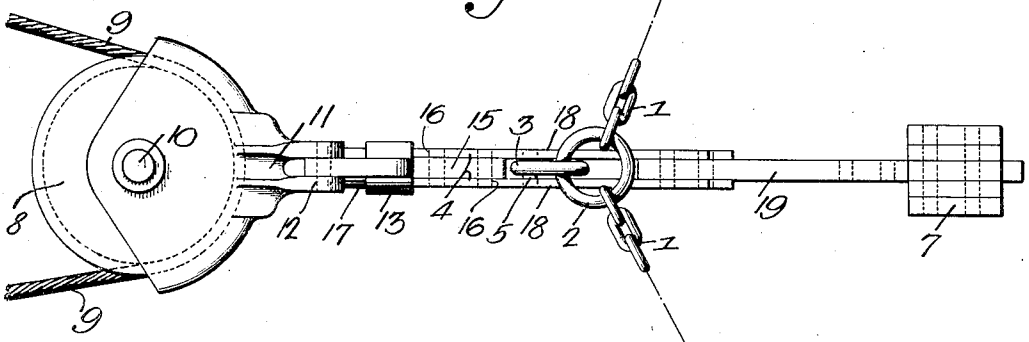


Fig. 1.

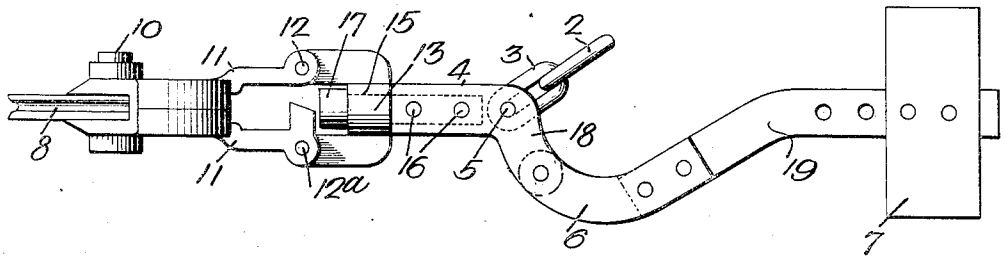


Fig. 3.

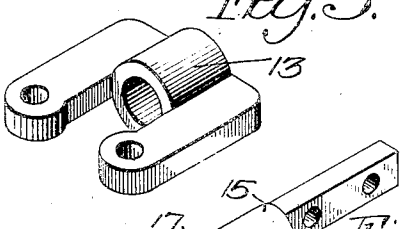


Fig. 4.

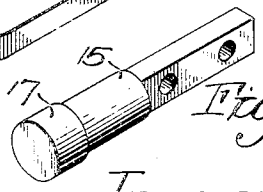
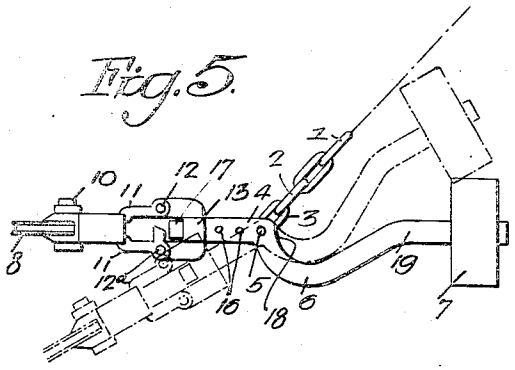


Fig. 5.



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UNITED STATES PATENT OFFICE.

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SHEAVE-CARRIER.

1,348,691. Specification of Letters Patent. Patented Aug. 3, 1920.

Application filed April 13, 1920. Serial No. 373,628.

To all whom it may concern:

Be it known that I, ROBERT H. BEAUMONT, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Sheave-Carriers, of which the following is a specification.

My invention relates to certain improvements in the carrier for the sheave of a scraping apparatus used in storing coal, or other material, in which the rope used in operating the scraping device is moved first in one direction and then in the opposite direction.

My invention relates to certain improvements in the pulley block carrier set forth in the application filed by Thomas F. Webster, filed Nov. 18, 1919, under Serial No. 338,935.

The object of my invention is to improve the detail construction of the carrier, as fully described hereinafter, reference being had to the accompanying drawings, in which:

Figure 1 is a side view of a balanced sheave carrier illustrating my improvements;

Fig. 2 is a plan view of the same;

Figs. 3 and 4 are perspective views illustrating modifications of the invention, and Fig. 5 is a diagram.

The sheave carrier illustrated in the drawings is a balanced sheave carrier and is suspended, in the present instance by chains 1 from posts, or other suitable supports. The sheave is the rear sheave around which passes a rope used in operating the scraping device for storing coal, or like material, in piles, or removing the coal, or like material, from piles. This rope, when it is reversed to return the scraper after pushing a load forward, becomes slack, in some instances, and a sheave will drop causing the rope to rub against the sheave housing. This action is detrimental to the rope. Furthermore, the rope, in some instances, is apt to twist. By my invention, I accommodate this twist by swiveling the sheave.

2 is a ring attached to a chain 1, anchored in any suitable manner. Hung from the ring by a hook 3 is a carrier 4, curved at 6 as shown to avoid the chain, but the two ends of the carrier are on the same line extending longitudinally through the pivot 5. On one end of the carrier is a sheave 8 and at the opposite end is an adjustable weight 7 which balances the sheave and its bearings. The sheave 8 is mounted on a pivot pin 10 carried by a two-part frame 11 having guards which inclose a portion of the sheave, as clearly shown in Fig. 2. One part of the frame is attached by a pivot pin 12 to an arm of the swivel block 13, shown clearly in Fig. 3. The other part is pivoted at 12^a to another arm on the swivel block 13. 15 is a swivel pin made as clearly shown in Fig. 4, and is secured by rivets or bolts 16 to the plates of the carrier 4. The head 17 of this pin extends between the two arms of the swivel block 13. In the present instance, the carrier consists of two plates 18 attached to a single bar 19 by rivets, or other fastenings. By the above construction it will be seen that I provide a balanced sheave carrier in which the balance weight is so placed that the center of gravity of the weight and the sheave and the pivot for the carrier are in one line, thus permitting the sheave to move in any direction. Furthermore by providing the swivel the sheave can rotate freely thereon to accommodate any possible lead of the rope.

I claim:—

1. The combination of a pivoted carrier having a weight at one end; a sheave at the opposite end; and a swivel connection between the sheave and the body of the carrier.

2. The combination of a pivoted carrier having a weight at one end; a pivot pin at the opposite end; a swivel block mounted on the pin; a two-part frame; a pivot pin; a sheave mounted on the pivot pin of the frame; one part of the frame being attached to one side of the swivel block and the other part being attached to the opposite side thereof.

3. The combination of a pivoted carrier having a pivot pin at one end; a swivel block mounted on the pivot pin; a sheave mounted on a frame attached to the block, the other arm of the carrier being bent and having a straight portion in line with the sheave and pivot pin; and an adjustable weight on the straight portion.

ROBERT H. BEAUMONT.