Jan. 17, 1950 C. C. McMULLEN 2,495,197

DRAG SCRAPER EQUIPMENT

Filed Dec. 13, 1946

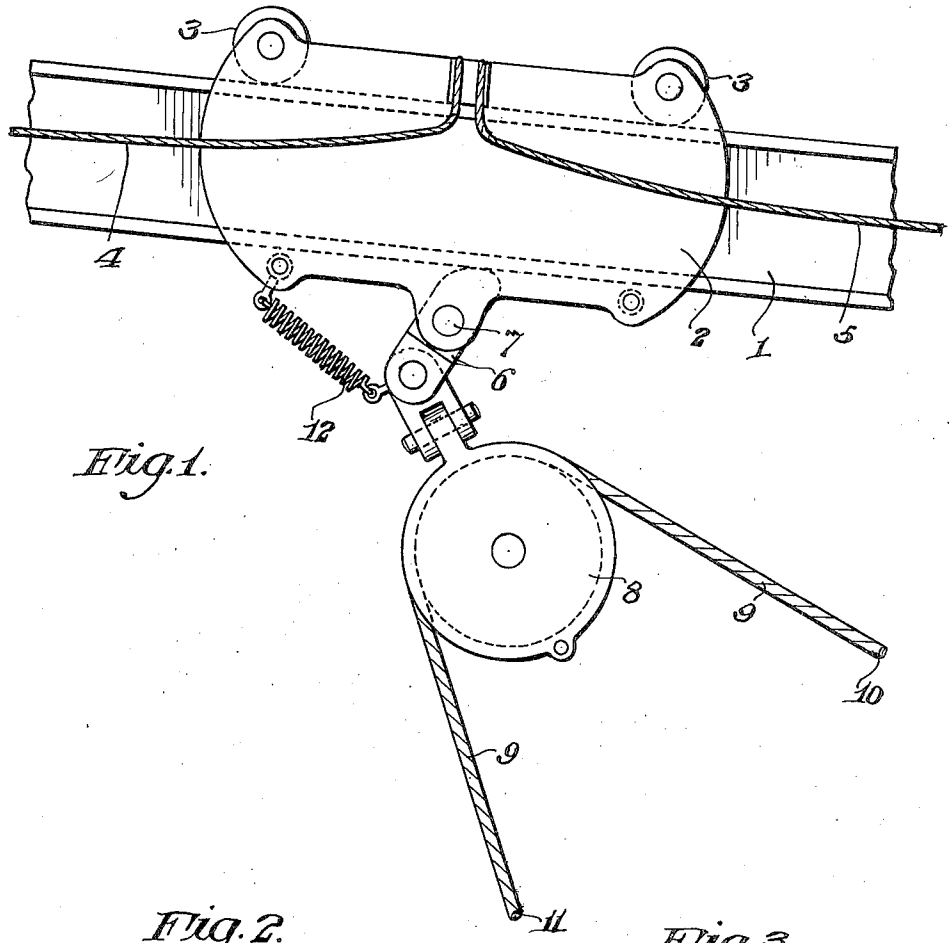


Fig. 1.

Fig. 2.

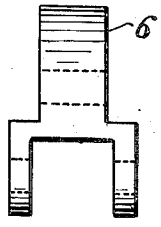
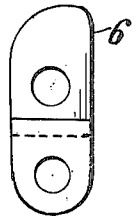


Fig. 3.



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Patented Jan. 17, 1950 2,495,197

UNITED STATES PATENT OFFICE

2,495,197

DRAG SCRAPER EQUIPMENT

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Application December 13, 1946, Serial No. 716,065

1 Claim. (Cl. 104—93)

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The present invention relates to improvements in drag scraper equipment including a beam or rail which is traversed by a car connected with a pulley, and over which passes the cable of a drag scraper.

The principal object of the present invention is to provide for immovably securing a tail block under the thrust of drag scraper equipment, and for otherwise affording freedom of travel of the same.

Other objects of the invention will appear from the following description at the end of which the invention will be claimed.

In the following description reference will be made to the accompanying drawing, forming part hereof and in which,

Figure 1 is a side elevational view.

Fig. 2 is an elevational view of a detail of construction.

Fig. 3 is a side view of the same.

Referring to the drawings, 1 indicates a beam arranged at the border of a storage lot or yard. 2 is a car arranged for back and forth movement on the beam 1 by means of wheels or rollers 3. 4 and 5 are cables connected at one of their ends to the car, and at the other ends connected with means (not shown) for moving the car. 6 is a clamping lever pivotally mounted to the car as at 7, with its toe arranged for cooperation with the beam 1. At the other end of the clamping lever 6 is pivotally mounted the pulley 8. Over the pulley 8 passes the drag scraper cable 9. Arranged at the end 10 thereof is the drag scraper (not shown), and at the end 11 is connected winding mechanism (not shown). The direction of the reaches of the cable 9 are inclined toward the right in the drawing so that the clamping lever 6 is normally clamped, but when the reaches of the cable 9 assume a vertical position in the drawing, the clamping 6 is unclamped and the car can be readily moved in either direction by means of the cables 4 and 5. The spring 12, when present, attached to the lower end of the clamping lever 6, assists in moving the latter.

When the parts are in the positions shown in Figure 1, the car is clamped to the beam 1, the drag scraper is being loaded, and the car remains at rest.

By means of the cables 4 and 5 the car is stopped and moved in either direction and the drag scraper is moved in the same way. When the car and drag scraper are at rest, the clamping lever is clamped to the beam, thus opposing undesirable motions of the drag scraper. When the car is moved the clamping lever shifts the clamp between the car and the beam leaving the car free to travel on the beam.

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It will be obvious to those skilled in the art to which the invention relates that modifications may be made in details of construction or arrangement without departing from the spirit of the invention.

I claim:

In a material handling system, a trolley, a relatively fixed guide and support track for the trolley having opposed longitudinally extending bearing surfaces, roller means on said trolley for rotatable engagement with one of said bearing surfaces of the guide track, a clamp lever pivotally mounted upon said trolley, said lever having a pair of oppositely extending arms one of which is adapted to directly bear against and frictionally engage the other of said guide track bearing surfaces, a pulley-block pivotally secured to the other of said lever arms and having associated therewith means for imposing a load upon said trolley through the intervention of said clamp lever and to cause the latter upon imposition of said load to automatically lock the trolley in fixed position upon the track, and spring means operative upon the last-mentioned arm of the clamp lever to release the trolley for movement along the track automatically upon release of the load upon the trolley.

CLETUS C. McMULLEN.

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