(No Model.)

C. M. CRONKHITE.

SCRAPER FOR SAWMILLS.

No. 477,518. Patented June 21, 1892.

Fig. 1.

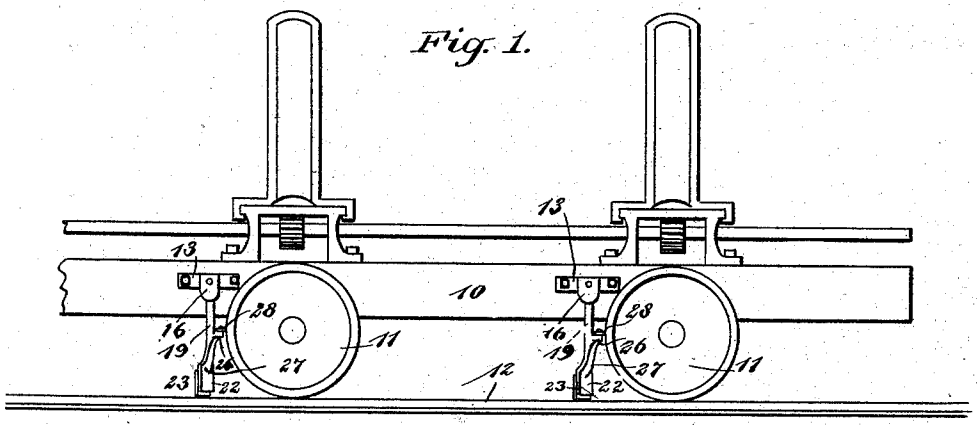


Fig. 2.

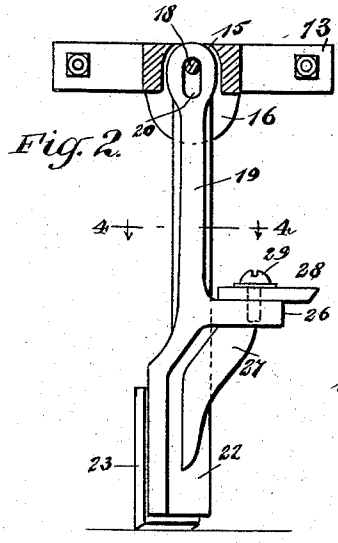


Fig. 3.

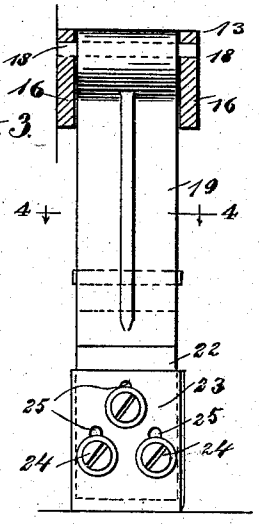


Fig. 4.

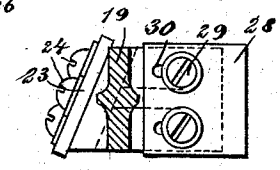
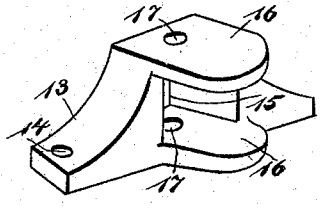


Fig. 5.



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CHARLES M. CRONKHITE, OF KIMBALL, WISCONSIN.

SCRAPER FOR SAWMILLS.

SPECIFICATION forming part of Letters Patent No. 477,518, dated June 21, 1892.

Application filed March 2, 1892. Serial No. 423,483. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. CRONKHITE, of Kimball, in the county of Ashland and State of Wisconsin, have invented a new and Improved Scraper for Sawmills, of which the following is a full, clear, and exact description.

My invention relates to improvements in sawmill attachments; and its object is to produce a cheap and simple scraper which may be attached to the carriage of any kind of a sawmill and which will scrape the track and the wheels of the carriage, so that both will be kept clean, and the carriage will thus be enabled to run smoothly and evenly.

To this end my invention consists in a scraper, the construction of which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a broken side elevation of a sawmill-carriage provided with my improved scrapers. Fig. 2 is an enlarged detail view of a scraper and its hanger, the hanger being shown in section. Fig. 3 is a front elevation of the same with the hanger in section. Fig. 4 is a sectional plan of the scraper on the line 4 4 in Figs. 2 and 3, and Fig. 5 is an enlarged detail perspective view of the hanger.

The sawmill-carriage 10 is of the common form, and may be of any approved kind, and it is provided with wheels 11, which run in the usual way upon the track 12. Near each wheel and to one side of the carriage is secured a hanger 13, which hanger has a flat back portion to enable it to be firmly fastened to the carriage, and the ends of the hanger are transversely perforated, as shown at 14 in Fig. 5, to provide for the fastening-bolts, by means of which it is secured to the carriage. The hanger 13 is thickened in the middle and provided with a vertical hole 15, in which the body of the scraper is suspended, and on the outer and inner sides of this hole are depending parallel flanges 16, which receive the side-thrust of the scraper-body, and serve as braces for the same. The flanges are perforated near the top, as shown at 17, to receive the pivot-pins 18, on which the body 19 of the scraper is suspended.

The scraper-body may be of any suitable metal strong enough for the purpose, and the upper end of the body is slightly enlarged and is provided with a transverse vertical slot 20, through which the pin 18 extends, and this permits of the necessary vertical movement of the body. The body is provided on its front and rear sides with strengthening-ribs, and its lower end is twisted slightly, as shown at 22, so as to extend normally across the track 12, and this arrangement enables the material on the track to be easily brushed aside.

Secured to the front face of the lower end 22 of the body is a steel wear-plate 23, although other suitable material may be used, and this plate has a beveled lower edge, which is adapted to run upon the track 12 and to scrape the sawdust, pitch, or other material from the track, so as to keep the latter clean. The plate 23 is fastened by screws 24, which project through vertical slots 25 in the plate, and this permits the plate to be adjusted vertically, so that when it has become worn it may be dropped down and enabled to bear properly upon the track-rail. As shown in the drawings, the lower edge of the plate is substantially straight, so as to fit a flat rail; but it will be understood that this lower edge may be shaped to correspond to the cross-section of the rail, so that it will fit snugly upon the same.

Near the middle of the body 19 and on the back side thereof is a projecting ledge 26, which is preferably strengthened by a rib-brace 27, and on this ledge is secured a wear-plate 28, which is substantially similar to the wear-plate 23, above described, and this plate is shaped to fit snugly against the face of the adjacent wheel 11. The plate 28 is fastened to the ledge 26 by screws 29, which project through slots 30 in the plate, and the slots are made lengthwise of the plate, so that the latter may be adjusted when necessary to make it properly fit the wheels. These scrapers are secured to the carriage adjacent to each wheel of the latter, and it will be seen that they will operate to simultaneously scrape the track and wheels, and if both are kept clean it is obvious that the carriage will move very much easier than when run without the scrapers. When the carriage is moved forward, the scrapers will bear upon the track and wheels, and when it is moved in the opposite direction the scrapers may swing freely on their pivots.

It will be understood that the scrapers may be made of any suitable width, and the hangers may also be thickened, if necessary, to make them fit the wheels and track of any form of carriage.

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

1. The combination, with a sawmill-carriage, of scrapers secured thereto and adapted to scrape the track and wheels thereof, substantially as described.

2. The combination, with a sawmill-carriage and its track, of scrapers suspended from the carriage adjacent to the wheels, said scrapers being adapted to frictionally engage the track and wheels, substantially as described.

3. As a new article of manufacture, a scraper comprising a hanger adapted to be secured to a sawmill-carriage, a scraper-body suspended from the hanger, and scraping-surfaces arranged at the lower end of the body and on the back side thereof, substantially as described.

4. The combination, with the sawmill-carriage and its track, of a hanger adapted to be secured to the carriage adjacent to the wheel, a scraper-body pivoted in the hanger and having a ledge on its back side, a wear-plate secured to the lower end of the scraper-body and adapted to engage the rail, and a wear-plate secured to the ledge so as to engage the face of the carriage-wheel, substantially as described.

5. The combination, with the sawmill-carriage and its track, of a hanger adapted to be secured to the carriage adjacent to a wheel, said hanger having parallel flanges arranged on its outer and inner sides, a scraper-body suspended in the hanger and adapted to move vertically therein, said body having its lower end placed at an angle to the track-rail, a wear-plate secured to the lower end of the body to engage a rail, and a wear-plate secured to the back of the body, so as to project therefrom, said wear-plate being adapted to engage the face of a carriage-wheel, substantially as described.

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