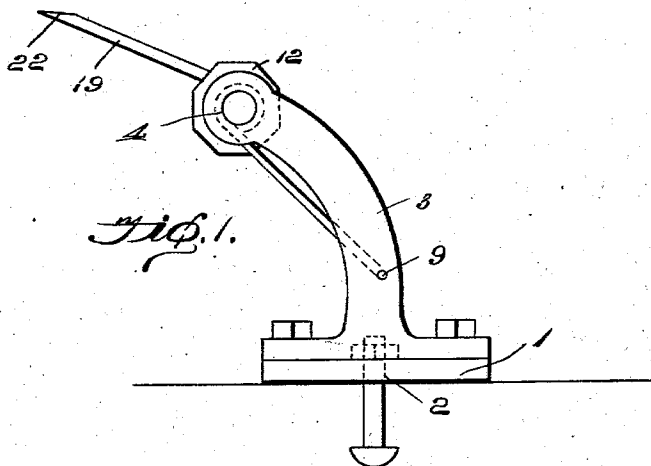
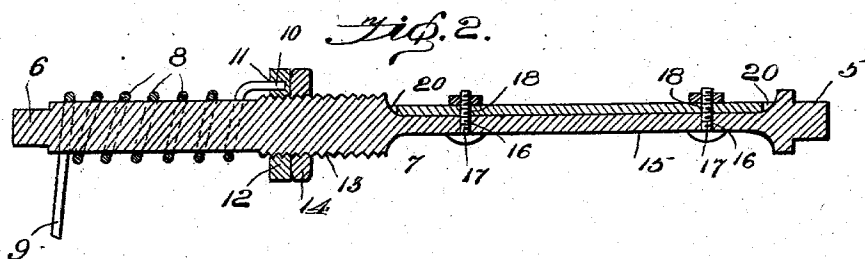
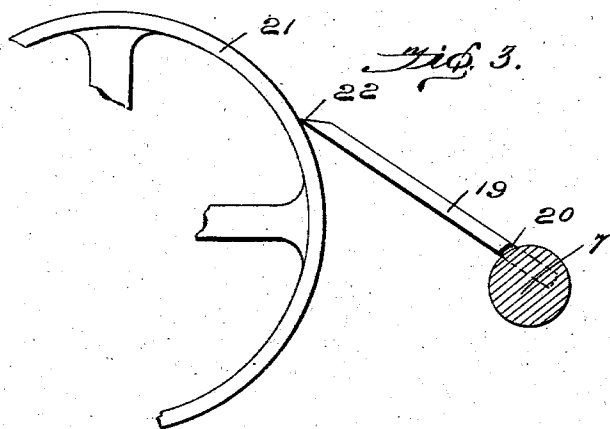


No. 730,419.

PATENTED JUNE 9, 1903.

J. TWEEDIE.
BAND WHEEL SCRAPER.
APPLICATION FILED DEC. 8, 1902.

NO MODEL.



Witnesses

Bernard M. Offutt.
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UNITED STATES PATENT OFFICE.

JAMES TWEEDIE, OF ROCKLAND, CANADA.

BAND-WHEEL SCRAPER.

SPECIFICATION forming part of Letters Patent No. 730,419, dated June 9, 1903.

Application filed December 8, 1902. Serial No. 134,367. (No model.)

To all whom it may concern:

Be it known that I, JAMES TWEEDIE, a subject of the King of Great Britain, residing at Rockland, in the county of Russell and Province of Ontario, Canada, have invented certain new and useful Improvements in Band-Wheel Scrapers, of which the following is a specification.

This invention relates to improvements in band-wheel scrapers, and has for its object a new and improved construction of scraper to be used in sawmills and other desirable places to keep the band-wheel clean of sawdust and grit, while at the same time there is as little friction as possible caused between the contact of the band-wheel and the scraper.

Another object of my invention is the provision of a simple and durable construction of band-wheel scraper which is thoroughly efficient and practical in use.

To attain these objects, the invention consists of a band-wheel scraper embodying novel features of construction and combination of parts, substantially as disclosed herein.

In the accompanying drawings, Figure 1 is a side elevation of the complete scraper. Fig. 2 is a longitudinal sectional view through the shaft carrying the scraper; and Fig. 3 is an end view of the scraper, showing its relative position to a band-wheel.

Referring to the drawings, the numeral 1 designates a base-plate, which is secured to the desired place by means of a bolt passing through the central opening 2 of the base. Secured to and projecting above the base-plate are the two standards 3, which are provided with aligned bearings 4 to receive the ends 5 and 6 of the shaft 7. The portion of the shaft adjacent to the end 6 is smooth and has mounted thereon loosely a coiled spring 8, whose outer end 9 is secured rigidly to one of the standards, while its other end 10 is mounted in an opening 11 in the nut 12, which is adjustably mounted upon the threads 13 on the shaft. In order to hold this nut, and consequently the spring, at the proper adjustment, I provide a lock-nut 14. I produce a cut-away portion 15 upon the shaft adjacent to the end 5 and provide the openings 16 therethrough for the reception of the lock-bolts 17, which pass through the openings 18, formed in the reduced inner edge of

the scraper-blade 19, the shoulders 20 of the scraper-blade being substantially parallel with the smooth portion of the shaft.

From the foregoing description, taken in connection with the drawings, it will be seen that the spring will always be adjusted to have a yielding tension toward the periphery of the band-wheel 21, (clearly shown in Fig. 3 of the drawings,) and as the outer edge 22 of the scraper is beveled anything that may cling to the band-wheel is readily removed or scraped from the band-wheel as the said wheel revolves in contact with the cutting edge of the scraper. By means of the lock-nut and adjusting-nut the tension of the spring may be varied so as to cause the scraper-blade to loosely or tightly engage the periphery of the band-wheel, as necessity may require.

From the foregoing description it is evident that I provide an improved form of band-wheel scrapers, which by reason of being secured by means of a collar-bolt in the center of the base will be permitted to tilt somewhat and always follow the exact motion of the band-wheel. The base of the scraper can also be secured in any desired position so that the motion of the wheel will not have to twist the scraper.

It is evident that I provide a band-wheel scraper which is the embodiment of simplicity, durability, and inexpensiveness.

What I claim as new is—

1. In a band-wheel scraper, the combination of a base, provided with a centrally-arranged opening to allow the same to be pivotally secured to a suitable support, brackets secured to and projecting upward from the base, said brackets being provided with aligned bearings, a shaft having reduced ends tiltingly journaled within the aligned bearings of the brackets, said shaft being provided with a long flattened portion and a short rounded portion, a coil-spring surrounding the rounded portion having one end connected to one of the brackets, a pair of lock-nuts mounted upon the shaft opposed to the opposite end of the spring, one of said nuts having the said opposed end of the spring secured therein, and a scraper detachably secured to one portion of the shaft and held in contact with the band-wheel by said spring.

2. In a band-wheel scraper, the combination of a base, provided with a centrally-arranged opening to allow the same to be pivotally secured to a suitable support, brackets
5 ets secured to and projecting upward from the base, said brackets being provided with alined bearings, a shaft having reduced ends tiltingly journaled within the alined bearings
10 with a long flattened portion and a short rounded portion, a coil-spring surrounding the rounded portion having one end connected to one of the brackets, a pair of lock-nuts mounted upon the shaft opposed to the op-

posite end of the spring, one of said nuts 15 having the said opposed end of the spring secured therein, a scraper adapted to have one end projecting upward above the shaft and the other end alined with the shaft, and bolts for securing the scraper to the flat portion of 20 the shaft.

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

JAMES TWEEDIE.

Witnesses:

HORACE M. SANFORD,
JOSEPHINE O'DONAHOE.