

(No Model.)

W. L. FREESE.

ROAD SCRAPER.

No. 306,913.

Patented Oct. 21, 1884.

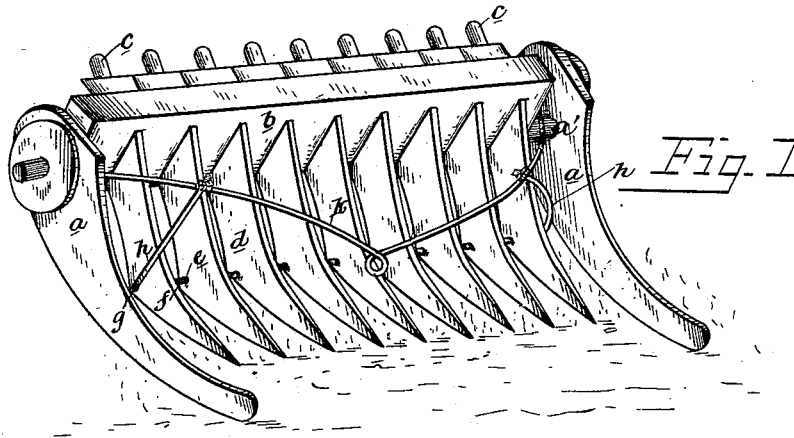


Fig. 2.

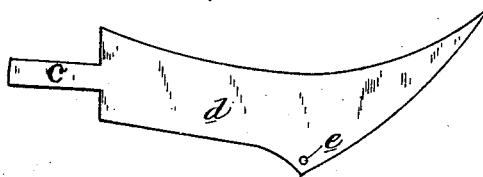
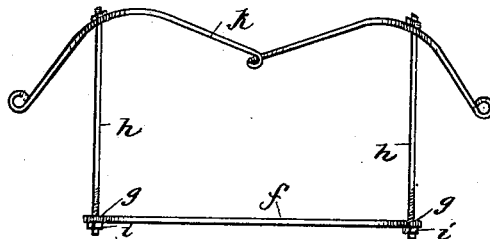


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

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ROAD-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 306,913, dated October 21, 1884.

Application filed May 3, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. FREESE, a citizen of the United States, residing at Mohawk Village, in the county of Coshocton and State of Ohio, have invented a new and useful Road-Scraper, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to road scrapers designed for use where there is sod or grass, roots, sticks, mud, or rubbish of any kind that is difficult to get into a scraper of the ordinary kind; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

Figure 1 is a view in perspective of a road-scraper embodying my improvements. Fig. 2 is a detail view of one of scraper-teeth removed, and Fig. 3 is a detail view of the three-part adjusting-rod.

Referring by letter to the accompanying drawings, *a a* designate the end boards of the scraper, which are curved, as shown, and enlarged at their rear ends, and connected by the cross-rail *b*, which forms the rear wall of the scraper. The handles are of the ordinary construction. The cross-rail *b* is mortised to receive the tenons *c* on the rear ends of the teeth *d*, and nuts and washers are employed to secure them in place. These teeth *d* are curved in their upper edges from heel to point, and they are also curved in their lower edges from the heel to a perforated shoulder, *e*, from which latter they are beveled to the point. The ends of the cross rail *b* are journaled in the end boards, so that the pitch of the teeth may be changed with relation to said end boards. The horizontal portion *f* of the adjusting-rod is passed through the perforations in the shoulders *e* of the teeth, and is provided at each end with a hole, *g*, through which the lower ends of the threaded portions *h h* of the

adjusting-rod pass, and nuts *ii* are employed to adjust the teeth by adjusting the horizontal rod *f* up and down upon the vertical rods *h h*, the upper ends of which are secured to the bail *k* of the scraper, so that the teeth may be made to stand perpendicular or slanting forward. The eyes at the ends of the bail *k* connect with fixed pins *a'* in the end boards, *a*, to effect this adjustment. If a tooth be broken, it may be easily taken out by removing the rod *f* and a new one put in its place.

This scraper is simple and cheap and is thoroughly efficient for the purposes for which it is intended.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a road-scraper, the combination, with the end boards journaled on the ends of the mortised cross rail, of the removable teeth, the three-part adjusting-rod, and the bail, substantially as specified.

2. In a road-scraper, the combination, with the end boards and mortised rear wall, of the removable teeth, and mechanism, substantially as described, for adjusting them vertically, substantially as specified.

3. In a road-scraper, the combination of the end boards journaled on the ends of the mortised rear wall, the perforated and tenoned removable teeth, the horizontal rod *f*, having holes in its ends, the vertical threaded rods *h h*, passing through said holes and secured in place by nuts, and the bail connected to the upper ends of the rods *h h*, substantially as specified.

In testimony that I claim the foregoing as my own I have hereon affixed my signature in presence of two witnesses.

WILLIAM LAWRENCE FREESE.

Witnesses:

J. S. ELLIOTT,

VINCENT FERGUSON.