

C. Marshall,

Scraper.

No. 110663.

Patented Jan. 3. 1871.

Fig. 1

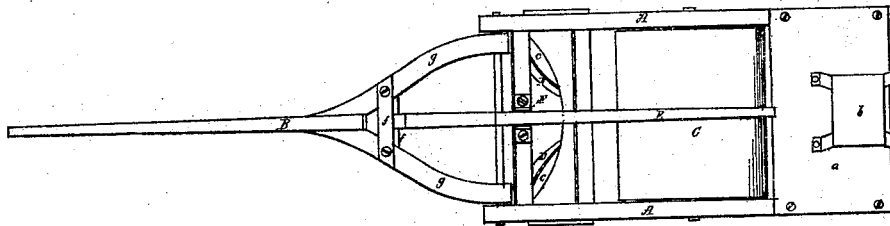


Fig. 2

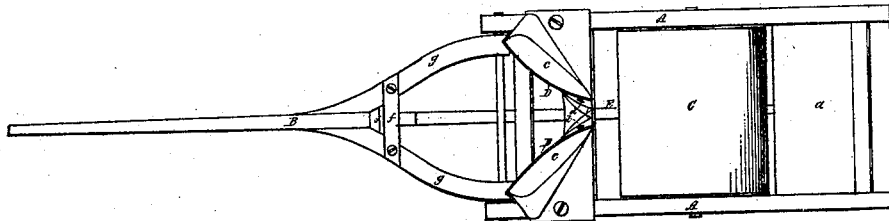
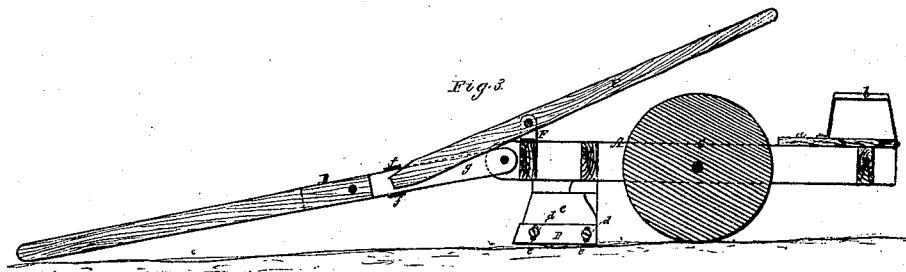


Fig. 3



Witnesses.
S. N. Piper
J. R. Rutter

Calvin Marshall.
by his attorney
R. H. Cady

UNITED STATES PATENT OFFICE.

CALVIN MARSHALL, OF NORTH EASTON, MASSACHUSETTS.

IMPROVEMENT IN RUT-LEVELERS.

Specification forming part of Letters Patent No. **110,663**, dated January 3, 1871.

To all whom it may concern:

Be it known that I, CALVIN MARSHALL, of North Easton, in the county of Bristol and State of Massachusetts, have invented a new and useful Rut-Leveler; and I do hereby declare the same to be fully described as follows, and to be represented in the accompanying drawings.

The purpose of the said machine is to efface the ruts formed in a road by the wheels of carriages.

Of the drawings, Figure 1 denotes a top view, Fig. 2 a bottom view, and Fig. 3 a longitudinal section, of the machine.

In the said figures, A denotes a frame provided with a tongue, B, (pivoted to it at one end,) and also having a roller, C, arranged within it at or near its middle, such roller being supported so as to be free to revolve. At the back part of the frame or in rear of the roller there is a platform, *a*, furnished with a seat, *b*, for a person to sit upon while the machine may be in use. In advance of the roller the frame is provided with two metallic scrapers, D D, arranged obliquely in manner as shown in Fig. 2, they being fastened to projections *c c* from the frame, and held thereto by clamp-screws *d* going through slots *e*, made in each of the scrapers, such being to admit of the scrapers being adjusted or depressed, as circumstances may require, after they may become worn. A long lever, E, pivoted to a standard, F, erected on the front part of the frame, has its front arm extended between two cross pieces or bars, *f f*, bolted to opposite sides of the prongs *g g* of the tongue, the whole being as shown in the drawings. If preferable, the scrapers may be connected with the lever, so as to be raised or depressed directly

by it. I prefer, however, to have them fixed to the frame, and the lever pivoted thereto or to a standard, as set forth.

In the operation of this machine a yoke of oxen or draft-animals is to be supposed to be attached to the tongue. The driver, while sitting upon the seat of the platform, will nearly counterbalance the weight of the front part of the machine, tending to press the scrapers downward. By means of the lever he can either increase the downward pressure of the scrapers on the road-surface or he can lessen the same or raise them entirely out of contact with such surface, as circumstances may require. The scrapers serve to scrape up and deposit into a rut the earth on each side of it, the roller operating to compress the earth into the rut, and to level or smooth the surface of the roadway while the machine may be put in movement over the same.

I am aware of the rut-leveler or scraper described in the United States Patent No. 7,462, dated June 25, 1850, and granted to Nathaniel Potter, and make no claim thereto, my rut-leveler being very different therefrom, both in construction and operation, although there are in the two machines some common features.

I therefore claim—

My improved rut-leveler, as described, consisting of the roller C, the frame A, the scrapers D D, the tongue B, and the lever E, all arranged and combined as specified and represented, so as to operate or be capable of being actuated in the manner and by the means as hereinbefore set forth.

CALVIN MARSHALL.

Witnesses:

R. H. EDDY,
J. R. SNOW.