A. THOMPSON.

ROAD-SCRAPER.

No. 192,720. Patented July 3, 1877.

Fig. 1

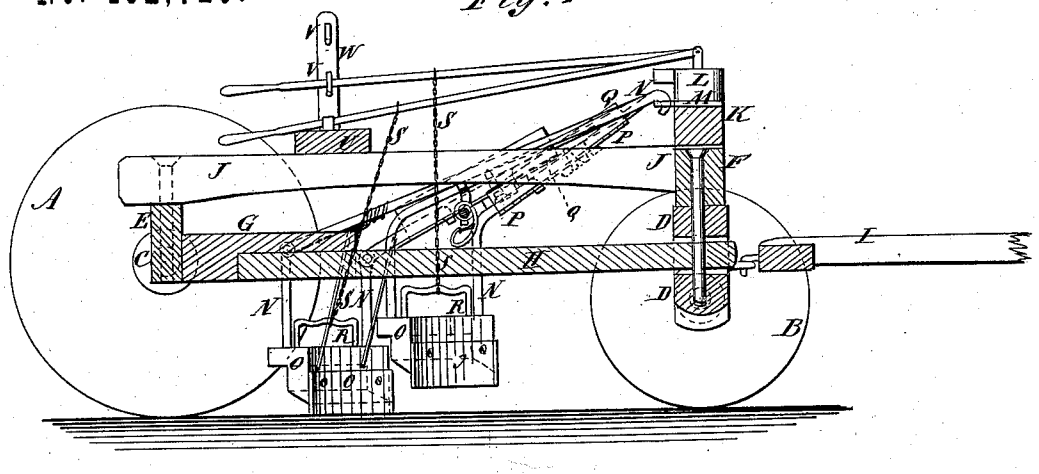
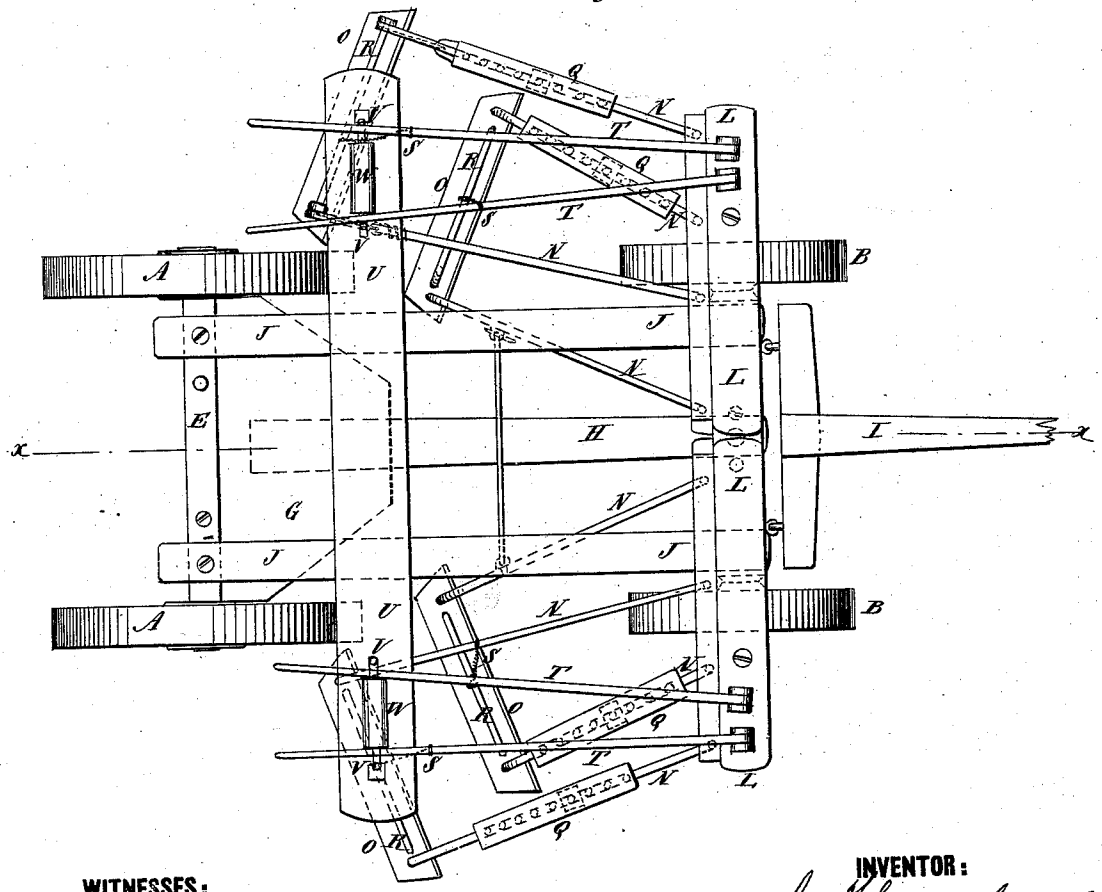


Fig. 2



WITNESSES:

C. Neveux

J. H. Scarborough.

INVENTOR:

A. Thompson.

BY Munn & Co

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AHIRA THOMPSON, OF HARMONY, ILLINOIS.

IMPROVEMENT IN ROAD-SCRAPERS.

Specification forming part of Letters Patent No. **192,720**, dated July 3, 1877; application filed May 5, 1877.

To all whom it may concern:

Be it known that I, AHIRA THOMPSON, of Harmony, in the county of McHenry and State of Illinois, have invented a new and useful Improvement in Road-Scrapers, of which the following is a specification:

Figure 1 is a vertical longitudinal section of my improved machine, taken through the line *x x*, Fig. 2. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for filling up the ruts and hollows of a road and keeping it smooth, which shall be so constructed that it may be attached to an ordinary wagon, which will work upon even or uneven ground, which can be adjusted to scrape wide or narrow, light or heavy, light upon one side and heavy upon the other, and light or heavy upon the inside, and heavy or light upon the outside, and which shall be simple in construction and convenient in use.

The invention consists in the combination of the bars, the perforated plates, and the draft-bars, with the scrapers and the running gearing of a wagon; and in the combination of the loops or keepers, the chains, the levers, the cross-bar, and the standards, provided with the hooks, with the scrapers, and with the bars, attached to the running gearing of a wagon, as hereinafter fully described.

A represents the rear wheels, B represents the fore wheels, C the rear axle, D the fore axle, E the rear bolster, F the fore bolster, G the rear hounds, H the reach, and I the tongue, of an ordinary wagon, about the construction of which parts there is nothing new. J are two longitudinal bars, the ends of which are attached to the ends of the bolsters E F, and to the forward ends of which is attached a cross-bar, K. To the end parts of the cross-bar K are bolted short cross-bars L, which have metallic plates M bolted to their under sides. The rear parts of the metallic plates M project and have holes formed in them to receive the hooks formed upon the forward ends of the bars N. Several sets of holes are formed in the plates M to receive the hooks of the bars N, so that the said bars N may be adjusted outward or inward, as may be desired.

The bars N are arranged in pairs, and the rear ends of the bars of each pair are curved downward, and are attached to a scraper, O. If desired, the bars N, at their curve or angle, may be jointed and the draft-strain upon the scraper sustained by brace-rods *n'*, attached to said scraper and to plates attached to the forward part of the said bars N.

The scrapers O, four of which are used, two upon each side, are formed by attaching a metal plate to a wooden beam in the usual way. The outer bar N of each pair is formed in two parts, the adjacent ends of which have hooks formed upon them, and are hooked into holes in metal plates P. The metal plates P are bolted to wooden blocks Q, which have grooves formed in their inner sides to receive the bars N.

By this construction the outer bars N may be shortened or lengthened, to give a greater or less inclination to the scrapers O, or to incline them to move the dirt outward or inward, as may be desired.

To each scraper O is attached a long keeper, R, to receive the lower end of a chain, S, the upper end of which is attached to a lever, T. The forward ends of the levers T are pivoted to the cross-bar L. The rear ends of the levers T rest upon a cross-bar, U, attached to the longitudinal bars, or upon hooks V attached to the sides of the standards W, attached to said cross-bar U.

This construction enables the scrapers O to be adjusted to scrape light or heavy, as may be desired.

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

1. The combination of the bars J K L, the perforated plates M, and the bars N, with the scrapers O, and the running gearing of a wagon, substantially as herein shown and described.

2. The combination of the loops or keepers R, the chain S, the levers T, the cross-bar U, and the standards W, provided with the hooks V, with the scrapers O and with the bars J, attached to the running gearing of a wagon, substantially as herein shown and described.

AHIRA THOMPSON.

Witnesses:

J. B. BABCOCK,

C. P. FILLMORE.