

J. H. HOLT.
WHEELED-SCRAPER.

No. 179,656.

Patented July 11, 1876.

Fig. 1.

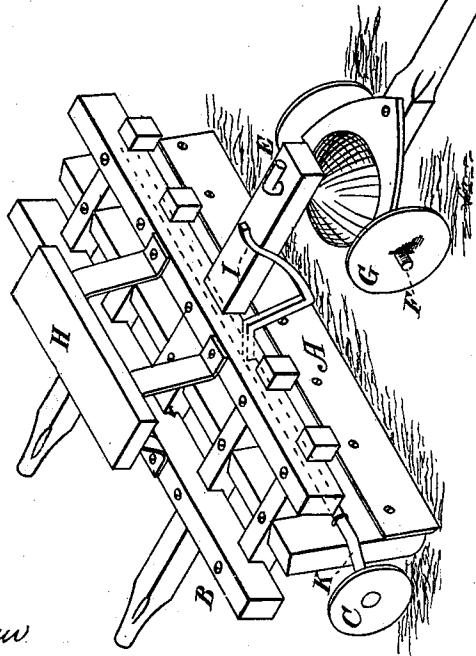


Fig. 2.

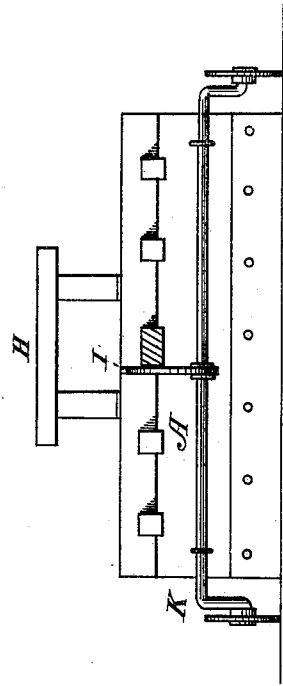
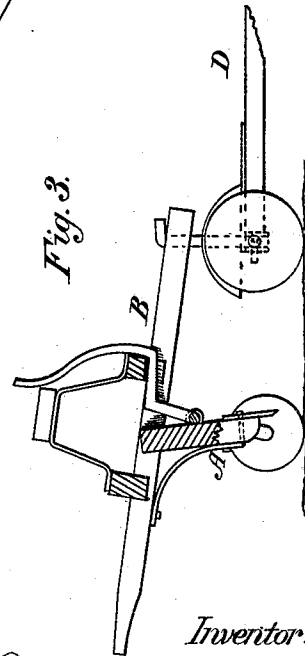


Fig. 3.



Attest:
James L. Mydew
W. H. Sexton

Inventor:
Jacob H. Holt.

UNITED STATES PATENT OFFICE.

JACOB H. HOLT, OF MONMOUTH, ILLINOIS.

IMPROVEMENT IN WHEELED SCRAPERS.

Specification forming part of Letters Patent No. **179,656**, dated July 11, 1876; application filed May 8, 1876.

To all whom it may concern:

Be it known that I, JACOB H. HOLT, of the city of Monmouth, county of Warren, and State of Illinois, have invented certain new and useful Improvements in Wheeled Scrapers, of which the following is such a full and exact description as will enable others skilled in the art to which the invention pertains to construct and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which similar letters indicate corresponding parts in the different figures.

Figure 1 represents a perspective view of the machine, showing the relative position and arrangement of the different parts. Fig. 2 represents a front elevation, and exhibits the vertical relation of the different parts to each other. Fig. 3 is a vertical section, showing the scraper elevated from the ground.

The object of this invention is to produce a machine by means of which the grading of roads, streets, or the bed of railways may be greatly facilitated, as animal-power is substituted for the slow and laborious movements of men with picks, shovels, and wheelbarrows, thus reducing the cost of such work to a great extent; and the invention consists in the construction and arrangement of the different parts of the machine, as will be hereinafter fully set forth, and then specifically pointed out in the claim.

In the drawings, A represents the scraper, which is formed from a plank of oak or other hard and durable wood, and may be six feet, or thereabout, in length, and with sufficient thickness to give the necessary strength and rigidity. Attached to its front by suitable screws or bolts, and projecting slightly beneath its lower edge, is a steel or iron plate, four or more inches in width, and of such thickness as will give the necessary strength and durability, it being evident that a plate of greater strength and hardness will be required when working in gravel or stony earth than will be necessary when the machine is used in loam or clay.

This scraper is attached to a suitable tim-

ber frame, B, which is carried upon the cranked axle K, the latter being supported by the wheels C. These wheels are twelve inches, or thereabout, in diameter, and serve to carry the principal weight of the machine, thus allowing it to be easily moved forward or back when desired. To the frame B is attached the tongue D by means of the king-bolt E, thus giving it perfect freedom of motion laterally. This tongue is mounted upon an axle, F, which is provided with suitable wheels G for its carriage. Mounted upon suitable supports attached to the frames B is the driver's seat H, in the front of which is a lever, I, so attached to the cranked axle K and the scraper as to control the loading and the unloading of the scraper at will.

The advantage of this method of constructing scrapers is, that the driver, riding upon the machine, is better able to control and direct his team than he would be if compelled to walk. The scraper itself is under perfect control, and may be made to take as heavy or as light a hold upon the earth as may be desirable through the agency of the controlling-lever, thus causing it to be an unexcelled implement for grading roads or similar work.

I am aware that scrapers have been heretofore used having some of the features of my invention; but they have lacked the peculiar adaptability to the work to be accomplished possessed by mine.

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

The combination of the lever I, bent axle K, wheels C, with frame B, scraper A, king bolt E, and caster-wheels G, constructed and arranged in the manner set forth, and for the purpose specified.

In testimony that I claim the foregoing I hereunto affix my signature this 22d day of April, 1876, in the presence of two subscribing witnesses.

JACOB H. HOLT.

Witnesses:

JAMES L. DRYDEN,
W. H. SEXTON.