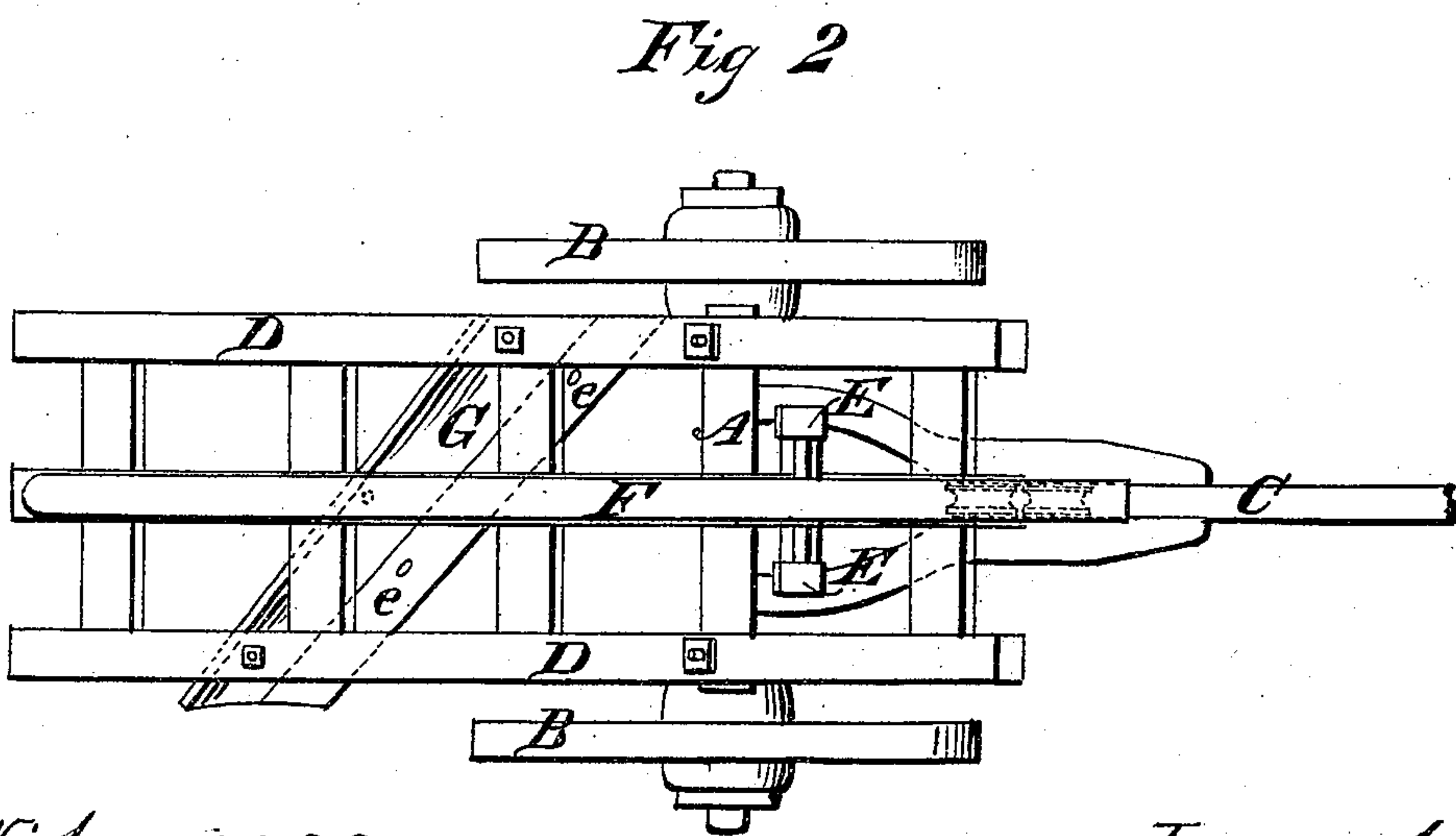
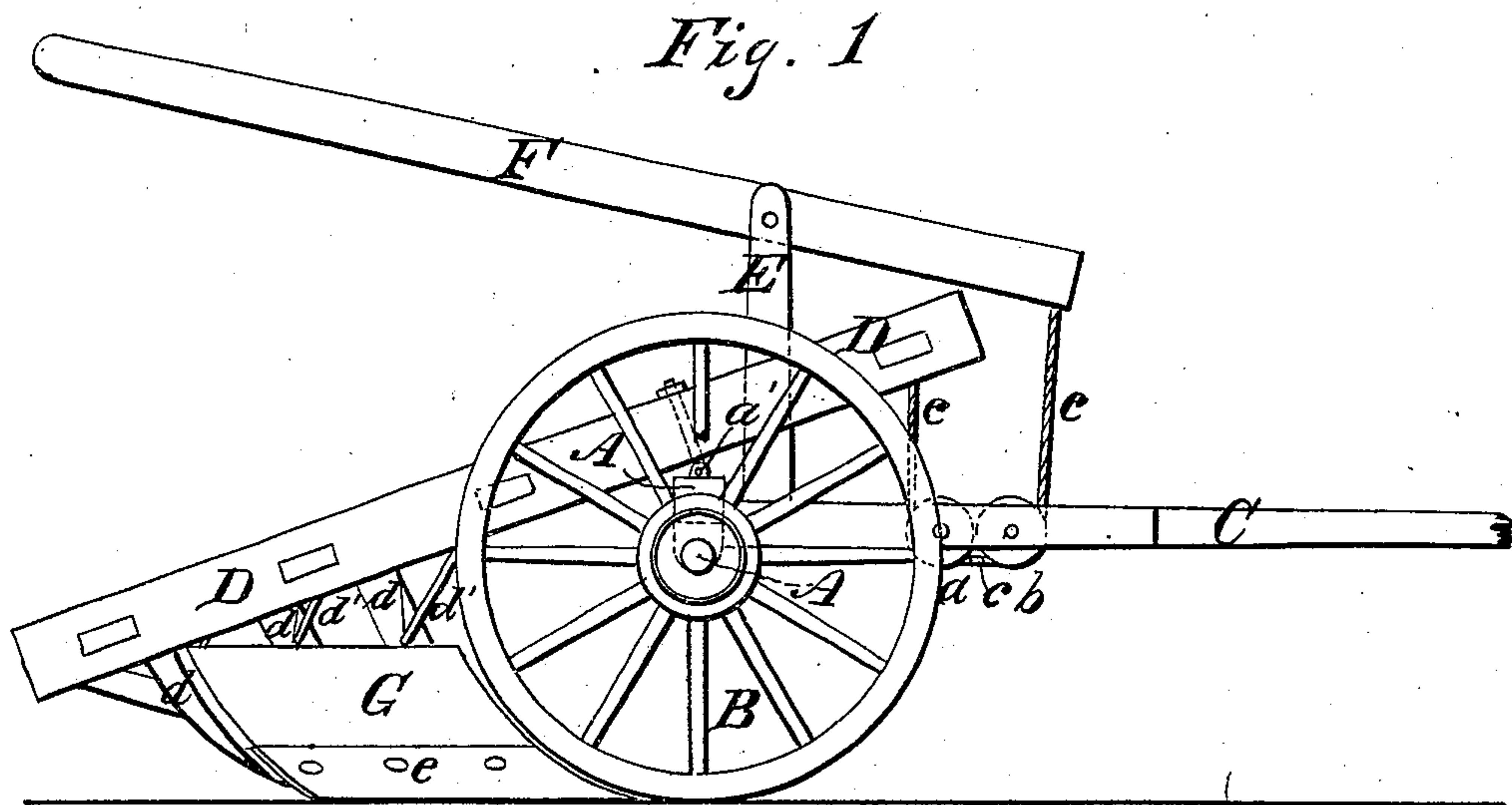


*R. S. Boyd.*

*Road Scraper.*

*N<sup>o</sup> 85,424.*

*Patented Oct. 29, 1868.*



*Witnesses:*

*Moore  
A. L. L. L.*

*Inventor:*

*R. S. Boyd.  
Per Brown, Cambria  
Att'y.*

# United States Patent Office.

ROBERT S. BOYD, OF SMITHLAND, KENTUCKY.

Letters Patent No. 85,424, dated December 29, 1868.

## IMPROVED ROAD-SCRAPER

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, ROBERT S. BOYD, of Smithland, in the county of Livingston, and State of Kentucky, have invented certain new and useful Improvements in Road-Scrapers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure 1 is a side view of a scraper constructed according to my invention.

Figure 2 is a plan view of the same.

Similar letters of reference indicate corresponding parts in both figures.

The object of this invention is to provide a scraper for repairing roads, and for other work of like character, which may be much more conveniently handled or manipulated when in use than those hitherto employed, and which will also perform its work in a very superior manner.

The invention consists in an oblique-scraping share, attached to a wheeled suspending-frame, in such manner, that by raising the rear end of such frame, the aforesaid blade may be brought clear of the ground, when desired; and in so combining a lever, cord, and pulleys with the aforesaid wheeled suspending-frame, and the draught-pole by which the scraper is drawn, that the frame may be very readily operated to raise the scraping-blade, as just mentioned.

To enable others to understand the construction and operation of my invention, I will proceed to describe it with reference to the drawings.

A represents an axle, furnished with two wheels, B, and having rigidly secured thereto a draught-pole, C, within the bifurcated inner end of which are two grooved pulleys, *a b*.

Shown at D is a rectangular frame, pivoted at about one-third, more or less, of its length from its forward end, to the upper side of the axle A, as shown more fully at *a'* in fig. 1.

Projecting upward from the rear end of the draught-pole, or from the axle, is a standard, E, in the upper end of which is pivoted a lever, F. The long arm of this lever extends back to the rear of the frame D, while its forwardly-extending short arm has attached to it a cord, *c*, which passes down underneath the pulleys *a b*, and thence upward to the forward end of the frame D, to which it is attached.

Secured to and underneath the rear portion of the frame just mentioned, by means of strong braces, *d d'*, is a scraping-share, G, which is placed obliquely, and with its surface inclined, as represented in the drawings, the said scraping-share being either wholly of metal, or of wood, with a metallic blade, *e*, fixed to its lower forward or scraping-edge.

When the apparatus is drawn along, the frame D being lowered, the scraping-share is brought in contact with the ground, and the soil or earth is scraped or acted upon thereby in a manner similar to that of an oblique scraper without wheels, and is thus evenly spread, and the surface of the ground or roadway, as the case may be, is thus smoothed and levelled; and in case, for any reason, it is desired to elevate the scraping-share, the long arm of the lever F is pressed upon, the cord *c* pulls downward the forward, and of course raises the rear end of the frame D, and thus elevates the scraping-share, as just mentioned.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the frame D, hinged to the axle A, and carrying the oblique scraper G, with the lever F, standards E, cord *c*, and pulleys *a b*, all arranged and operating substantially as shown and described.

ROBERT S. BOYD.

Witnesses:

JOHN SPELL,  
S. D. BRASELL.