

A. S. Babbitt,

Earth Scraper.

No. 111,165.

Patented Jan. 24, 1871.

Fig. 1.

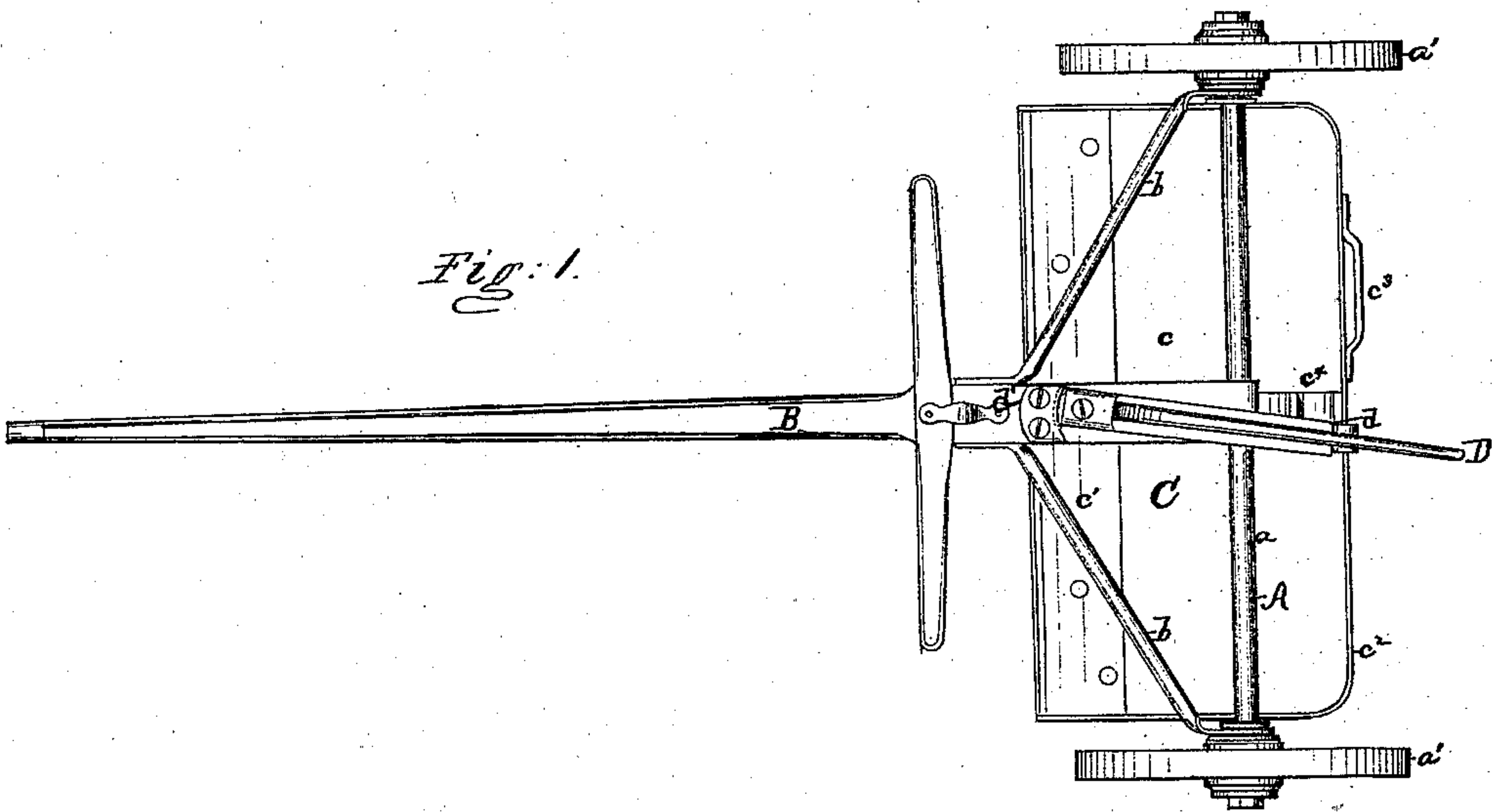
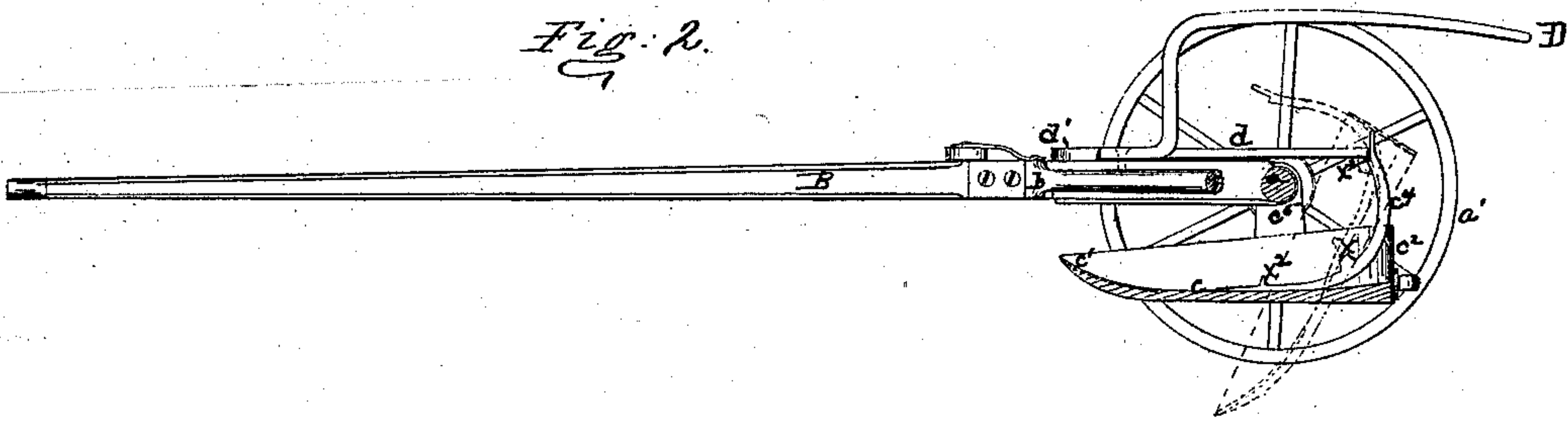


Fig. 2.



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United States Patent Office.

ASHER S. BABBIT, OF KEESEVILLE, NEW YORK, ASSIGNOR TO BABBIT,
HINCKLEY & CO., OF SAME PLACE.

Letters Patent No. 111,165, dated January 24, 1871; antedated January 14, 1871.

IMPROVEMENT IN EARTH-SCRAPERS.

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, ASHER S. BABBIT, of Keeseville, in the county of Essex and State of New York, have invented a new and useful Improvement in Road-Scraper; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention has for its object the production of a machine of simple construction for scraping and grading purposes, which shall be capable of taking up, carrying, and dumping the dirt, and consists in certain details of construction, which will be fully described hereinafter.

In the drawing—

Figure 1 represents a plan view of my improved scraper, and

Figure 2, a side elevation of the same.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents the axle of the machine, consisting simply of a straight shaft, *a*, which is carried by the wheels *a' a'*, as shown.

B represents the draft-pole, which is directly secured to the axle A at its rear end, and is further attached, also, by means of the brace-rods *b b*, as shown. To this pole is suitably attached the evener, in the usual manner.

C represents the scraper proper, which consists of the base-board *c*, with cutting-edge *c'*, and sides and back *c''*. It is also provided with a handle, *c'''*, the holding-bar *c''''*, and ears *c'''''*, by means of which latter it is secured to the axle, as shown.

D represents a bent lever, which has its fulcrum upon the rear end of the pole B. It is provided with a rearwardly-extending arm, *d*, which is sufficiently long to engage with the projections upon the holding-bar *c''''*, when it is desired to secure the scraper in any fixed position.

d' represents a bearing-plate, having its rear edge curved to correspond with the forward end of the lever D.

The operation is as follows:

When it is desired to scrape up the earth, the rear

end of the scraper is tilted up by means of its handle until its edge engages with the earth. The movement of the team now causes it to cut into and take up the soil, which is necessarily forced into its rear part. For the purpose of preventing the pressure occasioned by the resistance of the earth from causing the scraper to revolve completely, and thus discharge its contents, the holding-bar *c''''* is provided with a projection, *x*, against which the end of the arm *d* rests when the scraper is at work.

When a sufficient quantity of earth has been taken up to make a load, the rear end of the scraper is forced down, and the end of the arm *d*, by moving the lever D, is caused to rest in the recess *x'* in the upper part of the holding-bar *c''''*. The load by this means is securely held, and may be transported to any desired point. By simply disconnecting the lever from the holding-bar, the scraper will be permitted to revolve and deposit its contents.

When it is desired to use the scraper for grading purposes, its rear end is turned up and over the axle, and the rear end of the arm *d* is caused to rest against the projection *x''*. By using it in this position, uneven ground may be readily leveled and made smooth. The peculiar construction of the holding-bar is especially desirable, as it permits the arm of the lever to be adjusted for the different operations by simple and easy movements. The bearing-plate serves to prevent the lever from becoming accidentally displaced.

Having thus fully described my invention,

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

1. The lever D, provided with the arm *d*, in combination with the bearing-plate *d'* and holding-bar *c''''*, as and for the purpose described.

2. The scraper described, consisting of the axle A, pole B, scraper C, with holding-bar *c''''*, and lever D, with arm *d*, when constructed and arranged as described, for the purpose set forth.

This specification signed and witnessed this 21st day of April, 1870.

ASHER S. BABBIT.

Witnesses:

S. J. NOYES,
EDM. F. BROWN.