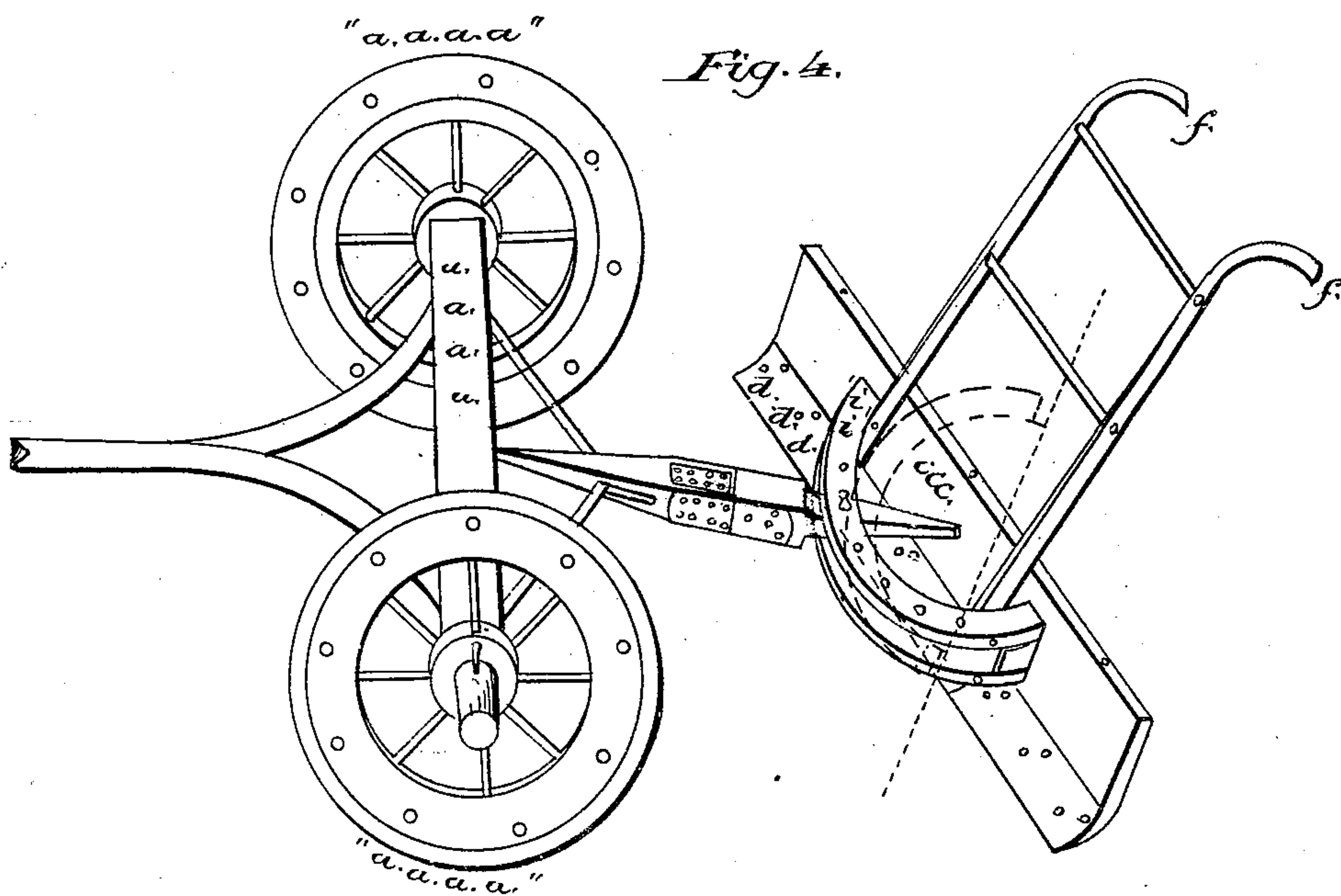
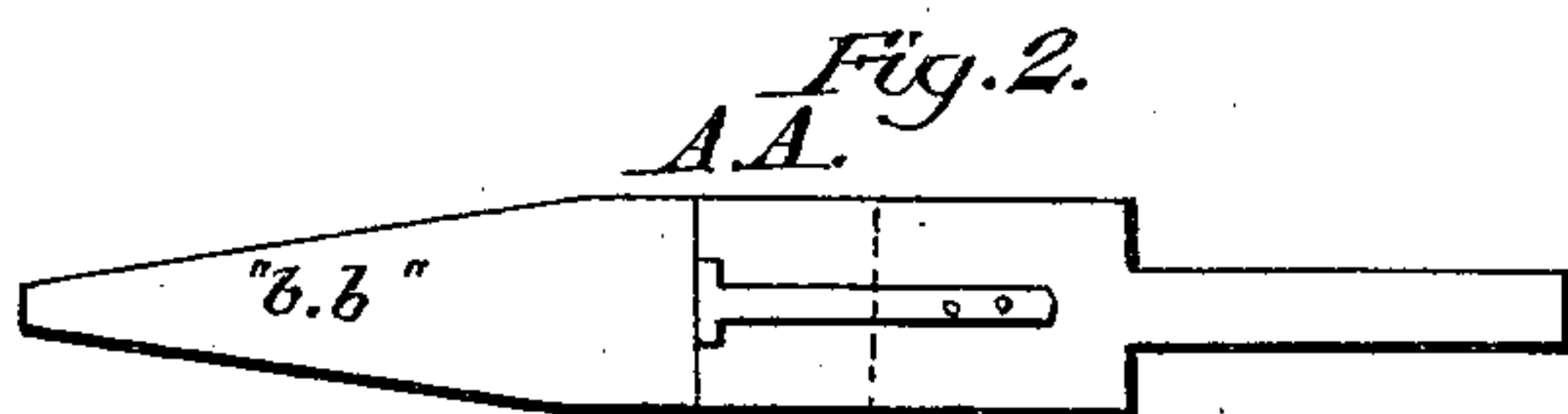
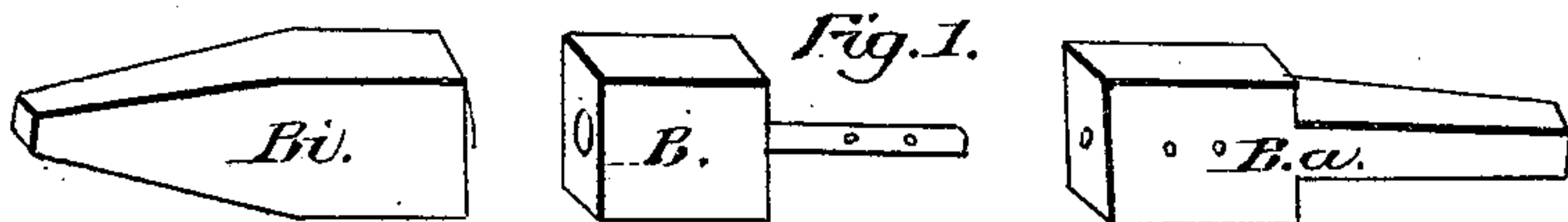


D. Neff.

Road Scraper.

N^o 84,570.

Patented Dec. 1, 1868.



Witnesses:
D. Neff
G. P. Winger

Inventor:
Daniel Neff

UNITED STATES PATENT OFFICE.

DANIEL NEFF, OF AMSTERDAM, NEW YORK.

IMPROVED ROAD-SCRAPER.

Specification forming part of Letters Patent No. 84,570, dated December 1, 1868.

To whom it may concern:

Be it known that I, DANIEL NEFF, of Amsterdam, in the county of Montgomery, State of New York, have invented a new and useful machine for scraping and leveling towing-paths to canals, highways, streets, embankments, and lands generally; and I do declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

Figure 1 is a sectional view of the reach hereinafter referred to. Fig. 2 is a view of such reach with sections connected together. Fig. 3 is a view of the metal clasp with which I cover the joint between the first and center sections when coupled together. Fig. 4 is a view of my invention arranged together in all its parts relatively, complete.

The nature of my invention consists in the following, viz: I first construct an axle and two wheels, one at each end, which wheels have flanged tires or rims, as shown in Fig. 4 by *a a a*, to the center of which axle I attach a shaft or reach, represented in Fig. 2 by *b b*, by means of an iron or other metal staple and bolt, or two counter-staples, which connections give a free and easy motion to the reach. The other end of this reach is fastened to the center top of the scraper hereinafter described, which scraper is represented, showing point where reach is attached, in Fig. 4, by *c c c*.

The reach *A A*, Fig. 2, is constructed in three parts, as shown in Fig. 1, by *B i*, *B*, *B a*, of wood or metal, and of any required length. In the center-piece, Fig. 1, of such reach I embed a short swiveled metal bolt horizontally, and so constructed and connected by and with the other two sections of the reach *B i*, *B*, *B a*, Fig. 1, as to give a lateral and perpendicular motion to section *B a*, Fig. 1, of the reach, while section *B i*, Fig. 1, attached to the axle, remains immovable. I sometimes construct this reach with the swiveled bolt passing through and turning at its connection with and at the axle instead of having the turning motion in the center of the reach.

I construct the scraper *c c c* with the upper part of wood, about five feet in length, and

from one to two feet in width or height, while the lower side, *d d d*, Fig. 4, is shod with or made of metal, securely fastened to the wooden frame *c c c* and sharpened or beveled upon the lower edge. From the upper part of this scraper I construct two bent guides or handles, for the convenience of the operator, as represented by *f f*, Fig. 4. The front side of this scraper-board *d d d c c c* is dishd or V-shaped. From the front of this scraper I construct parallel semicircles *i i i*, Fig. 4, leaving a sufficient space between them for the reach *A A* to move freely through. Through the surface of these parallel semicircles I pierce holes, through which an iron bolt passes, going through the above-described reach in its passage, which bolt and semicircles are used for the purpose of keeping the scraper at any required angle with respect to the surface over which it moves, while the propelling power directs or leads in a horizontal course.

The swiveled metal bolt embedded horizontally in the center of the reach *A A* permits the blade or edge of the scraper *d d d*, resting on the ground, to conform its motion and position, without the aid of the operator therefor, to the form of the surface over which it is moving, without any regard to the position of the carriage or axle by which the scraper is drawn.

The advantage gained by this invention is that a scraper constructed as herein described, and represented in Fig. 4, will, by the aid of one team and one man, perform in one day as much labor of the kind for which it is intended as one hundred men with hoes and shovels could do in the same time, and this machine will scrape and level the ground better than any other device of the kind known.

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

The self-adjusting reach having a swiveled metal bolt embedded horizontally therein, to be used as a connection for and in combination with a scraper, *d d d*, and carriage *a a a*, constructed substantially the same as described in the foregoing specification.

DANIEL NEFF.

Witnesses:

A. Z. NEFF,
C. P. WINEGAR.