Evans & Bartlett

Grading Scraper.

No. 47,531. Patented May 2, 1865.

Fig. 1.

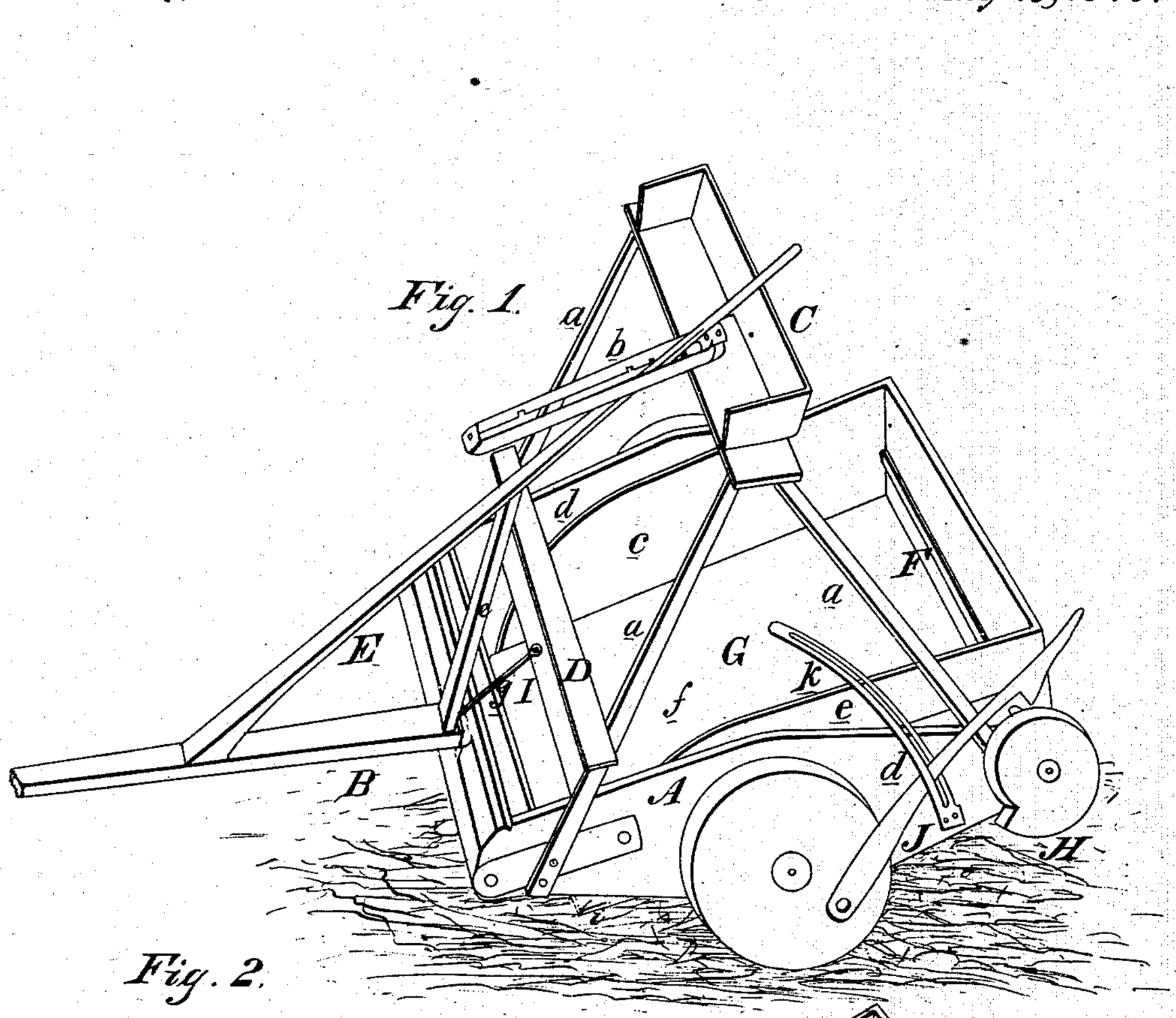


Fig. 2.

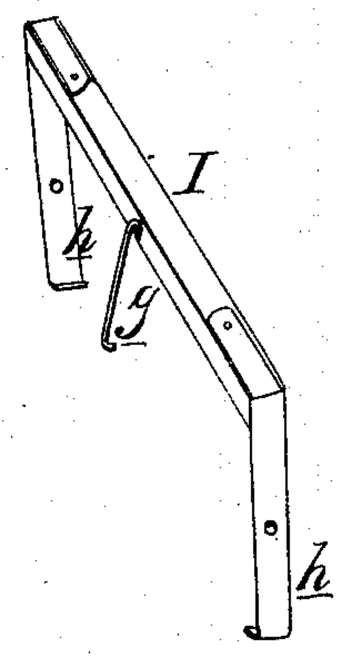
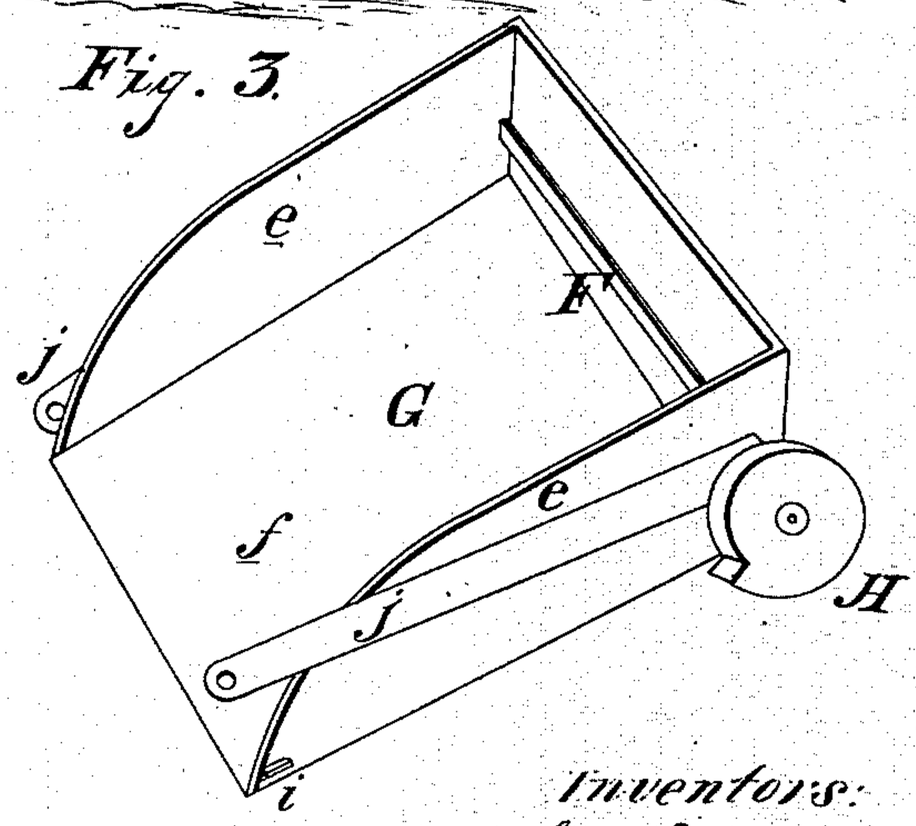


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES EVANS AND WILLIAM C. BARTLIT, OF MORTON, ILLINOIS.

IMPROVEMENT IN GRADING-SCRAPERS.

Specification forming part of Letters Patent No. **47,531**, dated May 2, 1865.

To all whom it may concern:

Be it known that we, CHARLES EVANS and WILLIAM C. BARTLIT, of Morton, in the county of Tazewell and State of Illinois, have invented a new and Improved Scraper for Grading Purposes; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a full side view of our invention; Fig. 2, a transverse vertical section of the same; Fig. 3, a side view of the same, the main frame and wheels being removed.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved scraper for repairing or grading roads, leveling earth, making embankments, &c.

The invention consists in the employment or use of a revolving scraper in a stationary frame mounted on wheels and arranged with a lever, as hereinafter fully set forth, whereby the scraper is allowed to rotate without raising the main frame of the machine and its wheels, and the machine rendered capable of being manipulated and managed with the greatest facility.

A represents the main frame of the machine, which is of rectangular form, mounted on wheels, and has a draft-pole, B, attached to it, and standards *a*, to support a driver's seat, C.

D is a foot-board to receive the feet of the driver.

On top of the draft-pole B and supported by the standard *e* the lever E is secured, and serves to operate the machine, and is held in certain positions by the rack *b*.

F is the shaft upon which the scraper G is fitted and firmly secured. This scraper is composed of two side pieces, *c c*, rounded at one end, as shown in Fig. 3, and having a plate, *f*, attached to the sides, which is not rounded, said plates forming the bottom of the scraper. On each end of the shaft F are fitted bars *j j*, which are secured to the inside of the side pieces, *c c*, of the main frame A, near its front end.

H is a wheel having a catch upon one side arranged upon shaft F, so as to act, in connection with lever J, to revolve the scraper after it is unloaded. Lever J is held to its place by the guard *k*.

I is a cross-bar, to which is attached two upright pieces, *h h*, which have projections at the lower end designed to hold the scraper to its place while at work. The upright pieces *h h* are secured on the inside of the main frame A in such a way as to allow the cross-bar I to move forward and backward, motion being given to it by the rod *g* being attached to the standard *e*.

Near the front end of the side pieces, *c c*, of the scraper G are projecting pivots *i*, as shown in Fig. 3, arranged so as to catch on the lower end of the uprights *h h*.

The operation is as follows: When the machine is being drawn and at work, the upper part of the lever E is drawn back a certain distance to keep the scraper down so that its front edge may take up the earth. When the scraper is full, the driver shoves the lever E forward so as to raise the scraper clear of the ground.

In order to admit of the scraper discharging its load, the lever E is pushed still farther forward, giving motion to the uprights *h h* by means of the rod *g* and the cross-bar I, thus allowing the scraper to empty itself. Thus by this simple arrangement the scraper is allowed to rotate without raising the main frame A and wheels of the machine, and a very simple and efficient device obtained for the purpose specified.

We claim as new and desire to secure by Letters Patent—

1. The revolving scraper G, in combination with the stationary mounted frame A and lever E, all arranged substantially as and for the purpose set forth.

2. The lever J, in connection with the wheel H, or their equivalents, for the purpose specified.

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