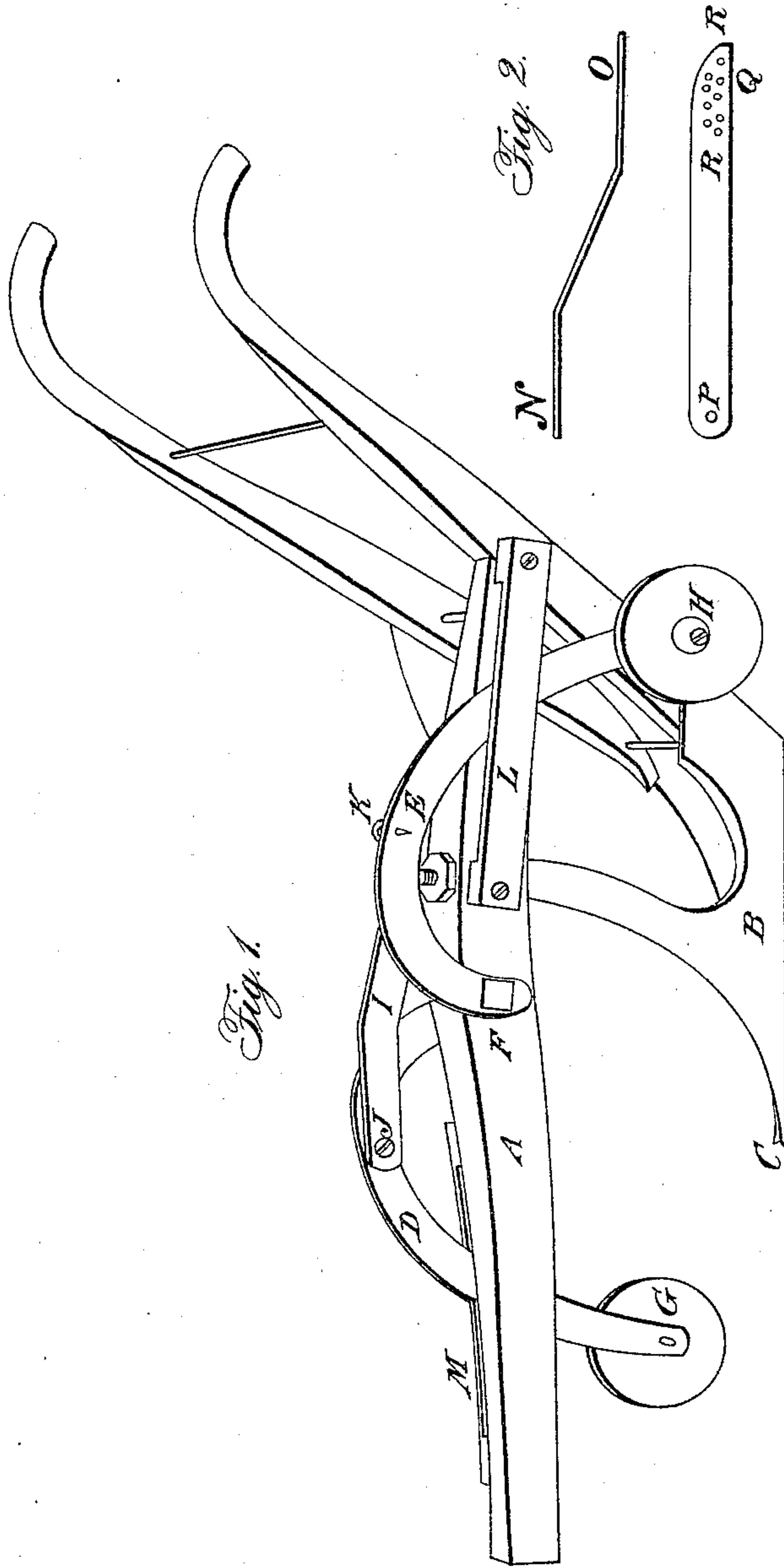


H. SPRAGUE.

Plow.

No. 9,473.

Patented Dec., 14, 1852.



UNITED STATES PATENT OFFICE.

HARVEY SPRAGUE, OF RIGA, NEW YORK.

IMPROVEMENT IN PLOW-REGULATORS.

Specification forming part of Letters Patent No. 9,473, dated December 14, 1852.

To all whom it may concern:

Be it known that I, HARVEY SPRAGUE of Riga, in the county of Monroe, the State of New York, have invented a new and Improved Plow-Regulator, for the purpose of regulating the depth of the furrow and steadying and carrying the weight of the plow; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

The nature of my invention consists in attaching to a plow-beam by means of arms two wheels, one working on each side of the plow-beam. One of the wheels rolls on the surface of the ground before the point of the plow, and the other back of the back end of the landside, and attaching a connecting and regulating-bar to the upper part of the arms, so that the arms and regulating-bar form an arch or bow with a wheel on each end. I hang the center of the arch on an axle or bolt which passes through the plow-beam, on which the arch or bow works, which has a wheel at the lower end of each arm, so that the wheels may follow the surface of the ground, by means of which the depth of the furrow is regulated, and at the same time carrying the weight of the plow. By means of the connecting and regulating bar on the upper part of the arms the depth of the furrow is gaged.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation by referring to the annexed drawings, in which—

Figure 1 is a perspective view, showing my plow-regulator when complete, ready for use. Fig. 2 shows the upper edge of the connecting and regulating bar. Fig. 3 shows a side elevation of the connecting and regulating bar.

A, Fig. 1, shows the plow-beam. B, Fig. 1, shows the landside of the plow. C, Fig. 1, shows the plow-point. D, Fig. 1, shows one of the arms of my plow-regulator, which carries the wheel in front of the plow-point. E, Fig. 1, shows the arm which carries the wheel back of the landside of the plow. F, Fig. 1, shows the head of the bolt, which passes through the plow-beam and answers the purpose of an axle, on which the arms D and E work. G, Fig. 1, shows

a wheel which rolls on the ground in front of the plow-point. H, Fig. 1, shows a wheel which rolls on the ground back of the landside of the plow. I, Fig. 1, shows the connecting and regulating bar, which is for the purpose of regulating the depth of the furrow. The regulating-bar is fixed to the arm D by the bolt J, Fig. 1, and is connected with the arm E by the pin K, Fig. 1. The end of the regulating-bar which is attached to the arm E has a number of holes drilled into it, so that it may be shortened or lengthened and kept in the required position by the pin K. L, Fig. 1, shows a guide-piece, which is firmly fixed to the side of the plow-beam for the purpose of guiding the arm E. M, Fig. 1, shows the upper edge of a guide-piece on the opposite side of the plow-beam, for the purpose of guiding the arm D.

Fig. 2 shows the upper edge of the connecting and regulating bar I, Fig. 1. N, Fig. 2, shows the end of the connecting-bar which is attached to the arm D, Fig. 1. O, Fig. 2, shows the end of the connecting-bar which is attached to the arm E, Fig. 1, and held by the pin K.

Fig. 3 shows a side elevation of the regulating and connecting bar shown at I, Fig. 1. P, Fig. 3, shows the end which is attached to the arm D, Fig. 1. Q, Fig. 3, shows the end which is attached to the arm E, Fig. 1. R R, Fig. 3, show holes which are drilled through the connecting-bar, into either of which the pin K may be placed for the purpose of raising or lowering the wheels G and H.

Now, it will be seen that the wheels G and H rolling on the ground which is not plowed, the weight of the plow is carried by the wheels and the furrow is gaged. It will also be seen that by placing the pin K into either of the holes in the regulating-bar, as shown at R R, Fig. 3, the wheels G and H may be raised or lowered, and held in any required position. It will also be seen that the arms D and E and the connecting-bar I form an arch or bow with a wheel at each end, and the arch or bow so formed being hung on the axle F, the wheels G and H may pass over any unevenness of the surface of the ground without materially affecting the depth of the furrow.

Having thus described the construction and operation of my plow-regulator, what I claim

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

The combination of the arms D and E with the connecting and regulating bar I, the arms D and E and the connecting-bar I forming an arch and working on an axle which passes through the beam, in the manner and for the

purpose substantially as herein described and set forth.

HARVEY SPRAGUE.

Witnesses:

I. B. BENNETT,

W. A. REYNOLDS.