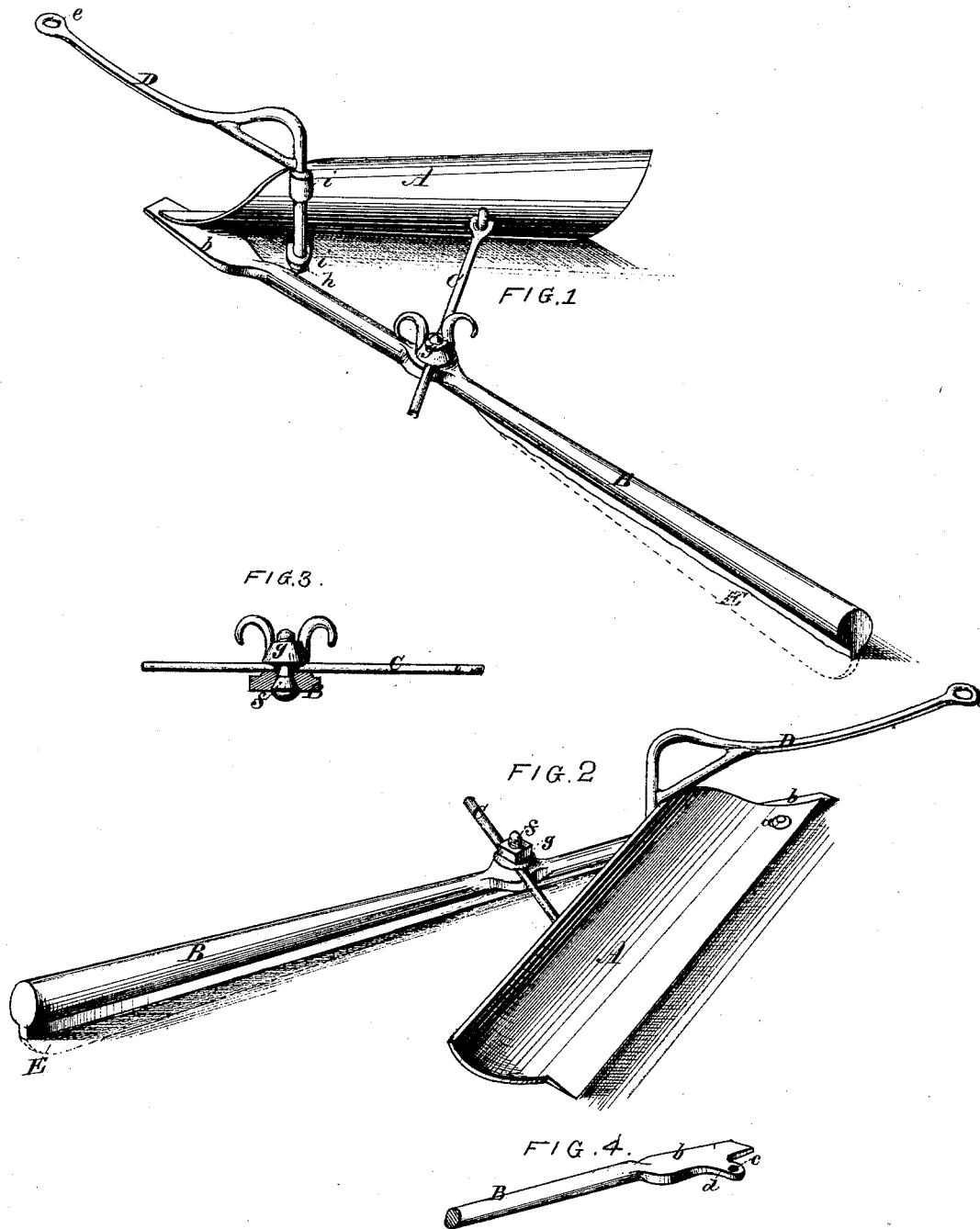


G. CLARK.  
Ditching Plow.

No. 108,238.

Patented Oct. 11, 1870.



Witnesses  
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# UNITED STATES PATENT OFFICE.

GEORGE CLARK, OF DOVER, ILLINOIS, ASSIGNOR TO HIMSELF, FRANKLIN B. IVES, OF TISKILWA, AND R. L. DEAN, OF DOVER, ILLINOIS.

## IMPROVEMENT IN ROAD SCRAPERS AND DITCHERS.

Specification forming part of Letters Patent No. **108,238**, dated October 11, 1870.

*To all whom it may concern:*

Be it known that I, GEORGE CLARK, of Dover, in the county of Bureau and State of Illinois, have invented a new and Improved Road Scraper and Ditcher; and I hereby describe the same.

My invention consists in the provision of certain devices by which the mold-board of a road scraper or ditcher can be adjusted at any required angle to cut a wide or narrow furrow; also, in a bar or beam of improved construction, provided with a penetrating-point and flange to hold and guide the mold-board in proper course, as hereinafter explained.

In the accompanying drawings, making part of this specification, Figures 1 and 2 are perspective views taken from the opposite sides of the machine. Fig. 3 represents a transverse section of the guiding-runner, showing in elevation the adjustable brace and the clamp by which it is held in position. Fig. 4 is a perspective view of the front portion of the guiding bar or runner.

Similar letters of reference indicate like parts in the several figures.

A represents the mold-board or share, pivoted at its front end to the flattened front end, *b*, of the guiding bar or runner B by means of a bolt or rivet, *a*, passing through the hole *c* in the lug *d*. The mold-board or share A is held at any angle to which it may be adjusted by a brace, C, which passes through an aperture in a bolt, *f*, and is clamped by a nut, *g*, the bolt *f* being fitted to turn within the bar B, to accommodate variations in the angle of

the brace-rod C. The guiding bar or runner B has a flat sharp front end, *b*, to penetrate and loosen the earth, and a sharp flange, E, at its rear under portion, to cut into the ground and hold the implement in its place and prevent lateral deflection of the mold-board or share A by the pressure of the earth against it. The bar or runner B is made of sufficient length to give a strong leverage, and thus adapt it to guide the implement steadily in its course. The swivel draft-pole D is attached to the front end of the mold-board or share A by means of lugs *i i*, the rear end being screw-threaded to receive a nut, *h*, to retain it in position, or it may be attached by suitable means to the guiding bar or runner B. It is further provided with an eye, *e*, in front, to receive a bolt, by which it is attached to the axle of any suitable vehicle to which the team is hitched; or the team may be attached directly to the tongue D, if preferred.

The mold-board may be made of steel, iron, or wood, as preferred, and the guide-bar also of either metal or wood.

I claim as my invention—

The combination of the adjustable mold-board A, brace-rod C, and clamp *f g* with the bar B, constructed with a point, *b*, and flange E, employed to guide the mold-board A, in the manner described.

GEORGE CLARK.

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