G. CLARK.

Ditching Plow.

No. 108,238. Patented Oct. 11, 1870.

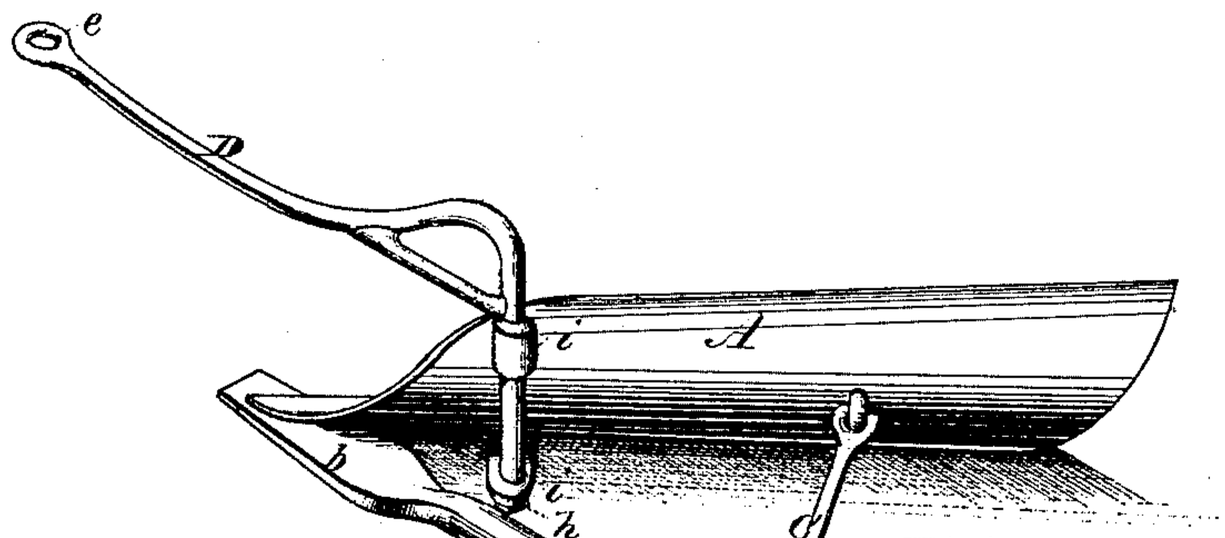

FIG. 1

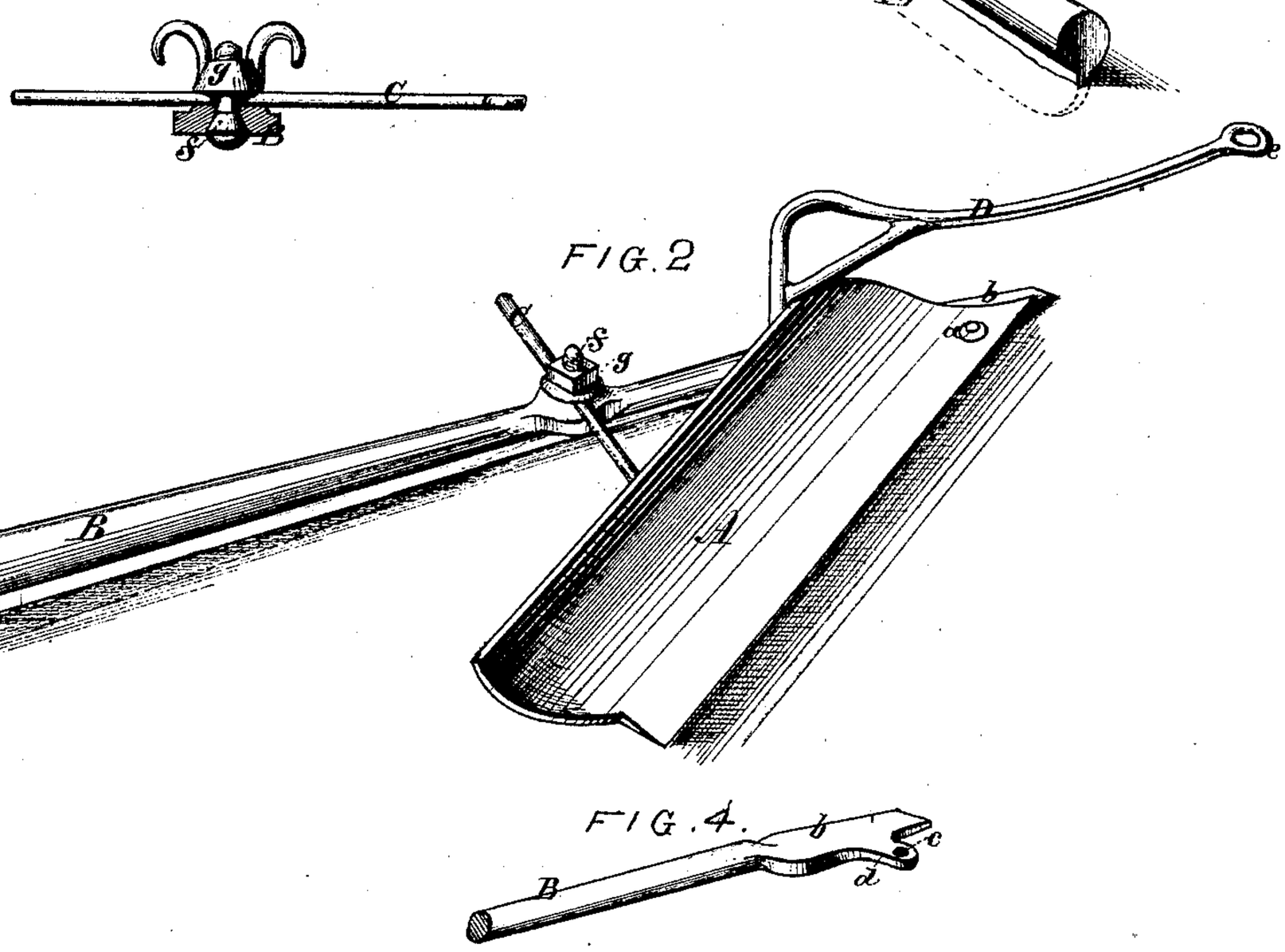

FIG. 2

FIG. 3.

FIG. 4.

Witnesses
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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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