

F. C. MILLIKEN.

ADJUSTABLE MOLD-BOARD SCRAPER.

No. 174,145.

Patented Feb. 29, 1876.

Fig. 1

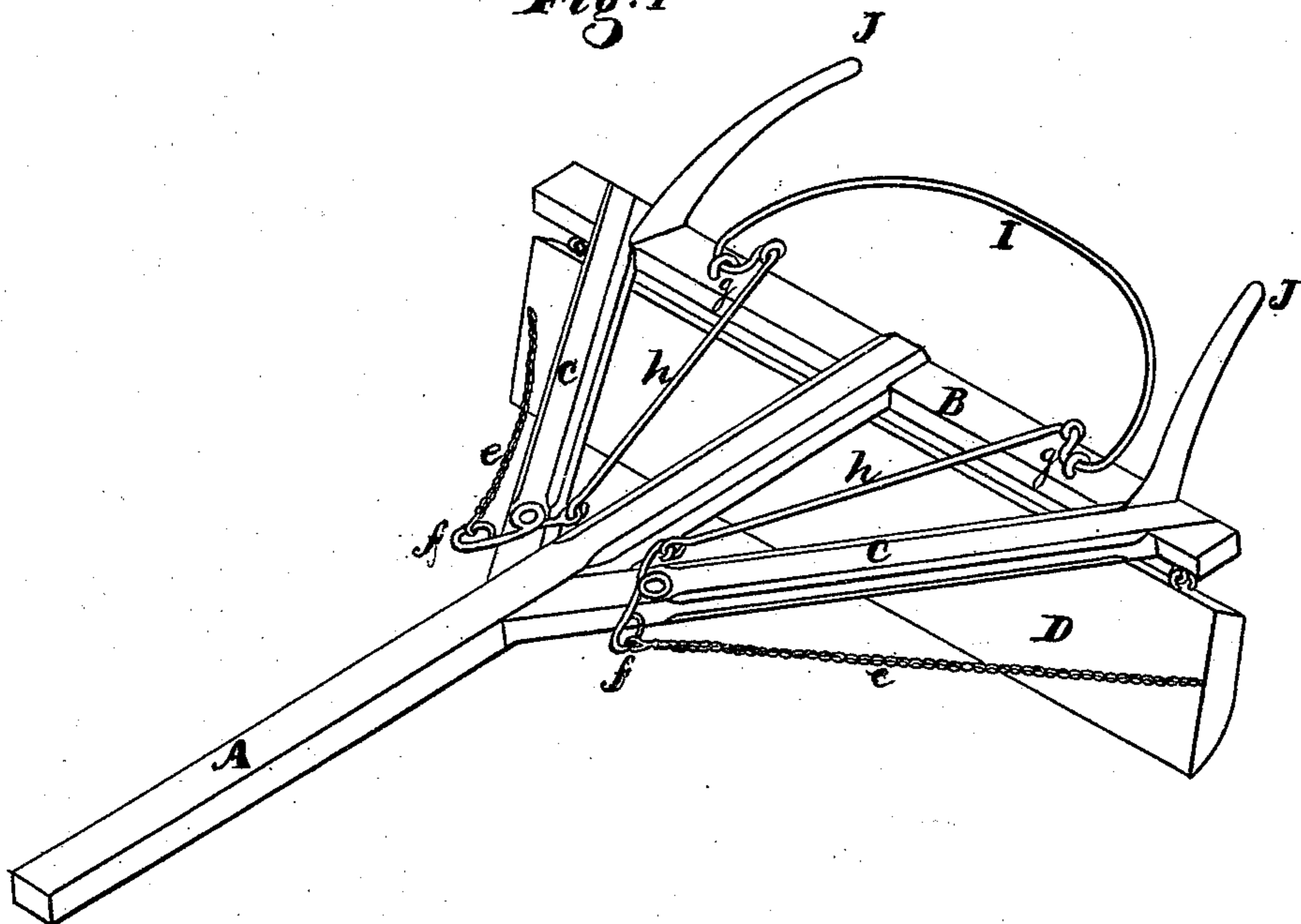
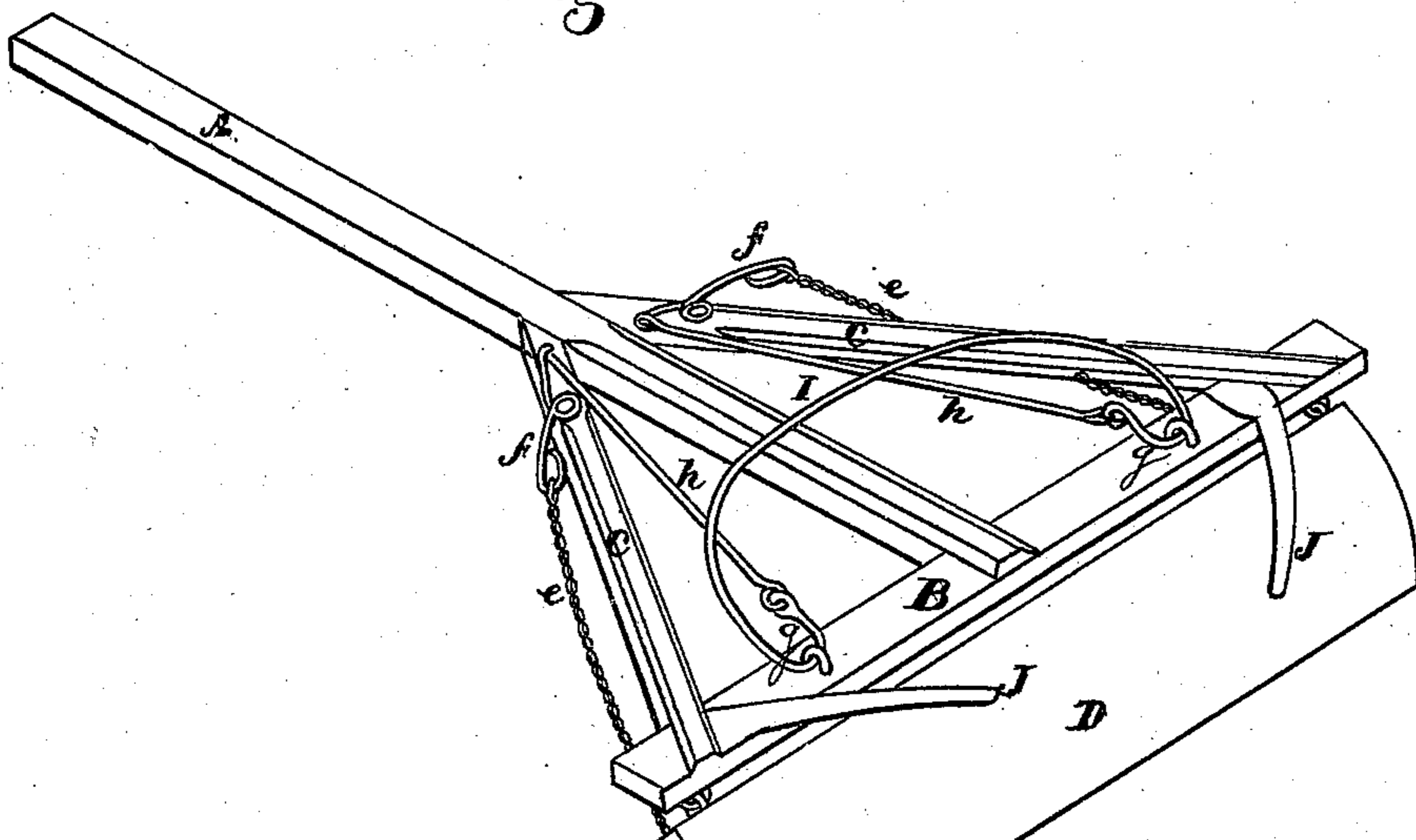


Fig. 2.



Witnesses
Geo. H. Strong
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UNITED STATES PATENT OFFICE

FRANK C. MILLIKEN, OF SANTA CRUZ, CALIFORNIA.

IMPROVEMENT IN ADJUSTABLE MOLD-BOARD SCRAPERS.

Specification forming part of Letters Patent No. 174,145, dated February 29, 1876; application filed January 4, 1876.

To all whom it may concern :

Be it known that I, FRANK CARR MILLIKEN, of Santa Cruz city and county, State of California, have invented an Adjustable Mold-Board Scraper; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention, without further invention or experiment.

My invention relates to a novel construction for scrapers, and it is principally for leveling off ground which is composed of alternate knolls and hollows, where one part will be too dry and the other too wet to make a crop. It consists in the use of a frame having a scraping mold-board, which is provided with a mechanism by which it is rendered easily adjustable so as to stand at any angle and scrape deep or shallow or discharge its load at will.

Referring to the accompanying drawings for a more complete explanation of my invention, A is the draft-pole, and B is a transverse-beam secured at the rear end of the pole like the letter T. Suitable braces *c c* steady this beam, and the scraper or mold-board is hinged to its lower edge, so as to swing readily either to the front or back.

In order to retain my mold-board in the most favorable position for the work to be done, I attach chains *e e* to its ends and carry them forward to the lever arms *f*, which are secured in the sides of the pole or the braces *c*.

It will be seen that by lengthening or shortening the connecting-chains the angle of the mold-board will be changed to cut deeper or shallower, as may be desired.

This might be as well effected by rigid arms having notches at suitable points, and these notches would engage with pins upon the ends of the mold-board, being readily detached by suitable handles.

In either case I am enabled to operate the

mold-board so as to throw it more or less forward, or to entirely release it, so that it will discharge its load backward, and I thus avoid the necessity of much leveling by hand.

In order to operate the levers *f*, and thus draw the lower edge of the scraper forward or allow it to incline backward at pleasure, the inner ends of the levers are connected by rods *h* with the short-arm *g* of the bail-shaped lever I.

Any other shaped lever might be used, but I prefer the bail-shaped, as it is more readily handled.

Two handles, J, project backward from the cross-bar B, and these serve to lift and handle the machine.

The operation will then be as follows: The lever I is drawn back, and through its connections the scraper has its edge drawn forward to an angle which will cause it to cut to any desired depth. This can be instantly regulated by moving the lever I, and it will thus be seen that in using my scraper upon the class of land for which it is intended, where small knolls alternate with similar hollows, the angle of the scraper can be so changed as to cause it to cut off the tops of the knolls and deposit them in the hollows, thus leveling the land and making it fit for a crop.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The hinged scraping-board D, in combination with the levers *f*, the connections *e* and *h*, and the operating-lever I, substantially as and for the purpose described.

In witness whereof I hereunto set my hand and seal.

FRANK CARR MILLIKEN. [L. S.]

Witnesses :

GEO. H. STRONG,
JNO. L. BOONE.