(No Model.)

J. JONES.

CULTIVATOR.

No. 304,733. Patented Sept. 9, 1884.

Fig. 1.

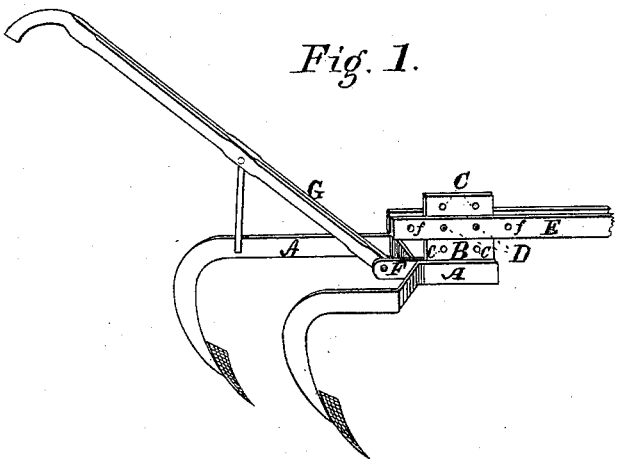

Fig 2.

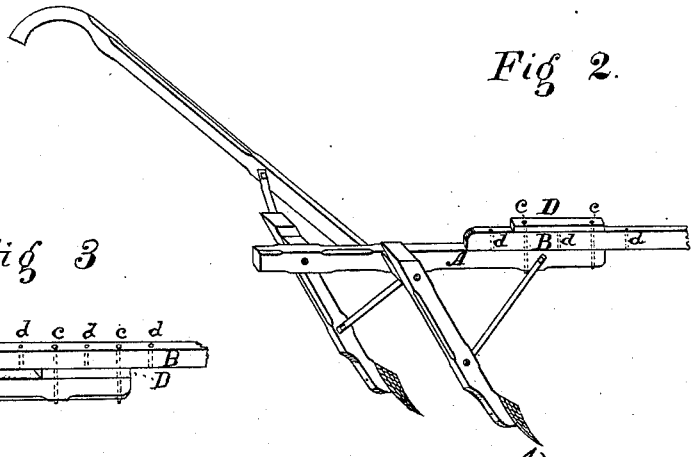

Fig 3

James Jones

Inventor.

Witnesses:

William E. Simmett

H. C. Watkins

UNITED STATES PATENT OFFICE

JAMES JONES, OF MALVERN, IOWA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 304,733, dated September 9, 1884.

Application filed December 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES JONES, a citizen of the United States, residing at Malvern, in the county of Mills and State of Iowa, have invented a new and useful Corn-Cultivator, of which the following is a specification.

My invention relates to improvements in corn-cultivators drawn by two horses, with two wheels operating upon an axle having attached thereto two beams (wood or iron) operating independently of each other, and each beam having two shanks, to each of which is attached a shovel. The object of my invention is to enable the operator to lengthen and shorten the beams and to adjust the shovels for depth at pleasure. I attain these objects in iron beams by the mechanism illustrated in the accompanying drawings, Figure 1, which is a view of the iron beam with handle, shanks, and shovels attached, in which letter A represents one portion of the beam, having welded or bolted therein an adjusting-plate, B, letter E being the other portion of the beam, with a slot the whole length, in which the adjusting-plate B may be fastened, as desired, horizontally or perpendicularly; and I attain these objects in wooden beams by the mechanism illustrated in Figs. 2 and 3 of accompanying drawings, Fig. 2 being a view of the wooden beam with handle, shanks, and shovels complete, in which letter A represents one portion of the beam, letter B the other, and letter D the adjusting-block, Fig. 3 being a sectional view of two parts of the beam A and B, having the adjusting-block D in the middle instead of on top, as in Fig. 2.

In constructing an iron beam, Fig. 1, I make the part shown as letter A by taking a bar of iron of desired size—say one and a half by half inch—and of sufficient length to double the length of beam desired, as in letter A—say ten to twelve inches—and also to make the shanks for plows, and by welding therein where doubled the adjusting-plate B, of suitable height—say five to six inches—and having a shank-extension to hold handle at F, the adjusting-plate B having therein bolt-holes *c*, to correspond with bolt-holes *f* in E, the part of beam E being constructed by using a bar of iron of size same as before, and of desired length—say four feet—and bending it in the middle until the two ends come near enough together to leave the space between of size only to fit the adjusting-plate B, the space at ends being open, the part of beam E having therein bolt-holes *f*, with bolts D to correspond with bolt-holes *c* in B. In operating, the beam is made long or short and plows set deep or shallow by shifting and adjusting beam E on the adjusting-plate B.

In constructing a wooden beam, Figs. 2 and 3, I use timber of same size as heretofore, and make the part A about three feet long, with perpendicular bolt-holes *c*, and the part B about two feet long, with perpendicular bolt-holes *d*, and by adding a block, D, (of desired thickness and) of same width between as in Fig. 3, to deepen plows with corresponding bolt-holes. In operating, the beam is made long or short by adjusting the part of beam B to A by changing the bolts in B, and the plows are made to run deeper by inserting block D between A and B, as in Fig. 3, and shallower by carrying block D on top, as in Fig. 2. The front end of beams is fastened to axle in any manner to suit.

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

In a wheel-cultivator, the sectional drag-bars made vertically and longitudinally adjustable one section upon the other, and consisting of the forward section, B, with vertical slot or opening and with a series of bolt-holes, in combination with the rear section, A, having plate or block C, and provided with adjusting bolt-holes and bolts, substantially as set forth.

JAMES JONES.

Witnesses:
W. M. DIMIUTH,
H. C. WATKINS.