S. A. WRAY.

CULTIVATOR PLOW.

No. 60,982. Patented Jan. 1, 1867.

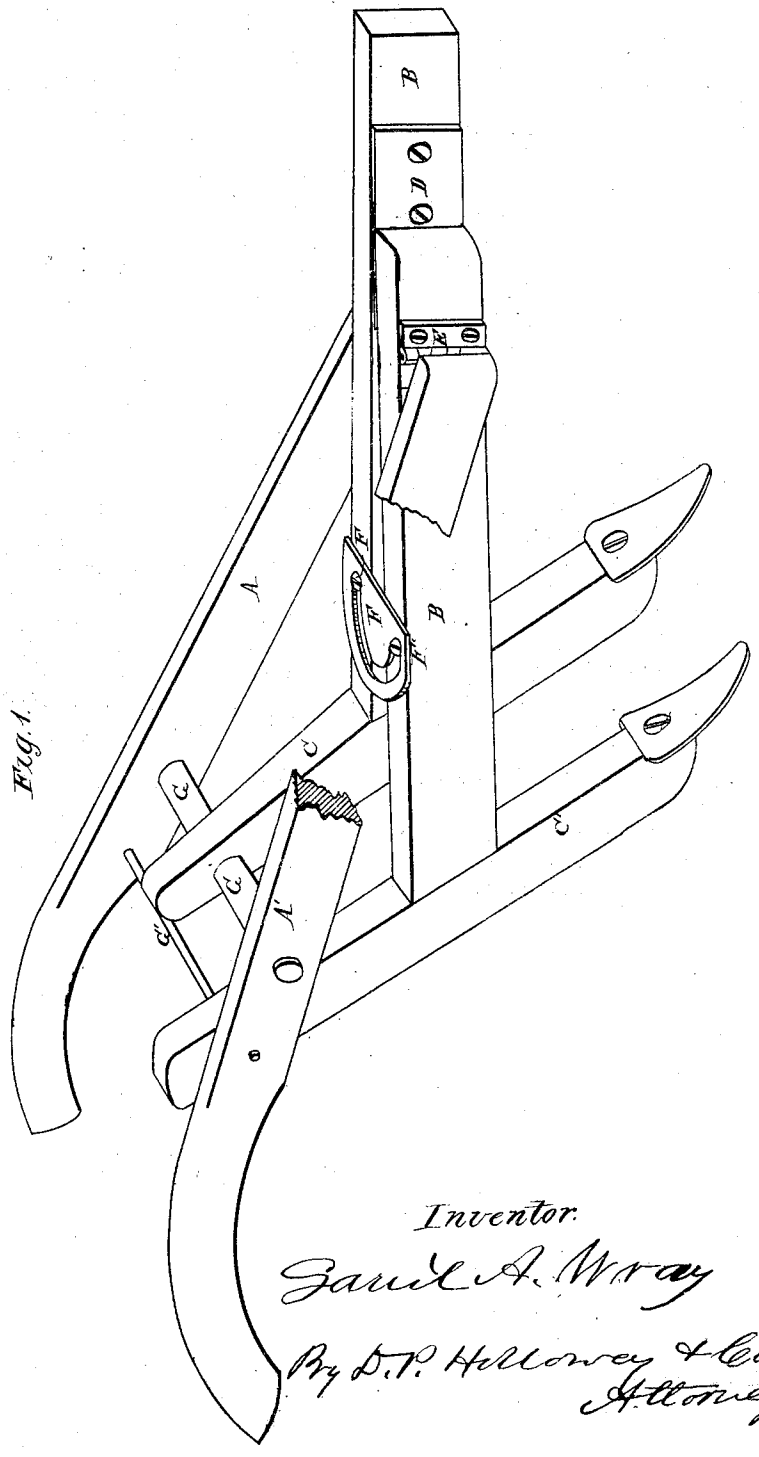

Fig. 1.

Witnesses.

C. Clausen

Lawrence Murphy

Inventor.

Saml A. Wray

By D. P. Holloway & Co

Attorney

United States Patent Office.

SAMUEL A. WRAY, OF GREENFIELD, INDIANA.

Letters Patent No. 60,982, *dated January* 1, 1867.

IMPROVEMENT IN CULTIVATOR PLOUGH.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL A. WRAY, of Greenfield, in the county of Hancock, and State of Indiana, have invented a new and useful Improvement in Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which the same is fully shown in perspective.

My invention relates to the mode of adjusting the distance between the two cultivator shovels, and it is constructed as follows:

A A′ are the plough handles attached to the beams B and B′; the handle A is rigidly attached to the beam B, and the handle A′ is attached to the beam B′ by a hinge, E, so set as to permit the beam B′ to be moved nearer or farther from the beam B, without affecting the distance between the handles A and A′, which is fixed by the stay rods G and G′. The beams are respectively fastened to the standards C and C′, of which the standard C is rigidly fastened to the brace G, and the standard C′ is so attached to the rod G′ as to permit its lateral play on the same. The beams B and B′ are fastened together by an elastic plate, D, which is fastened to each, as shown, and so as to permit the hind end of the beam to be so separated as to increase or diminish the distance between the shovels, which are attached to the lower end of the standards C and C′. The beams when properly adjusted, so as to secure the desired distance between the ploughs, are secured in that position by the semicircular plate F, which has a semicircular slot cut through it receiving the set-screws, F′ F′, by the stress of which the beams are held in place.

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

The combination of the beams B and B′ elastic plate D, and hinge joint E, with a device for retaining the beams in position, substantially in the manner set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

S. A. WRAY.

Witnesses:

W. W. KERSEY,

GEORGE BARNETT.