

B. F. McCOLLESTER.

Cultivator Teeth.

No. 81,188

Patented Aug. 18, 1868.

Fig. 1.

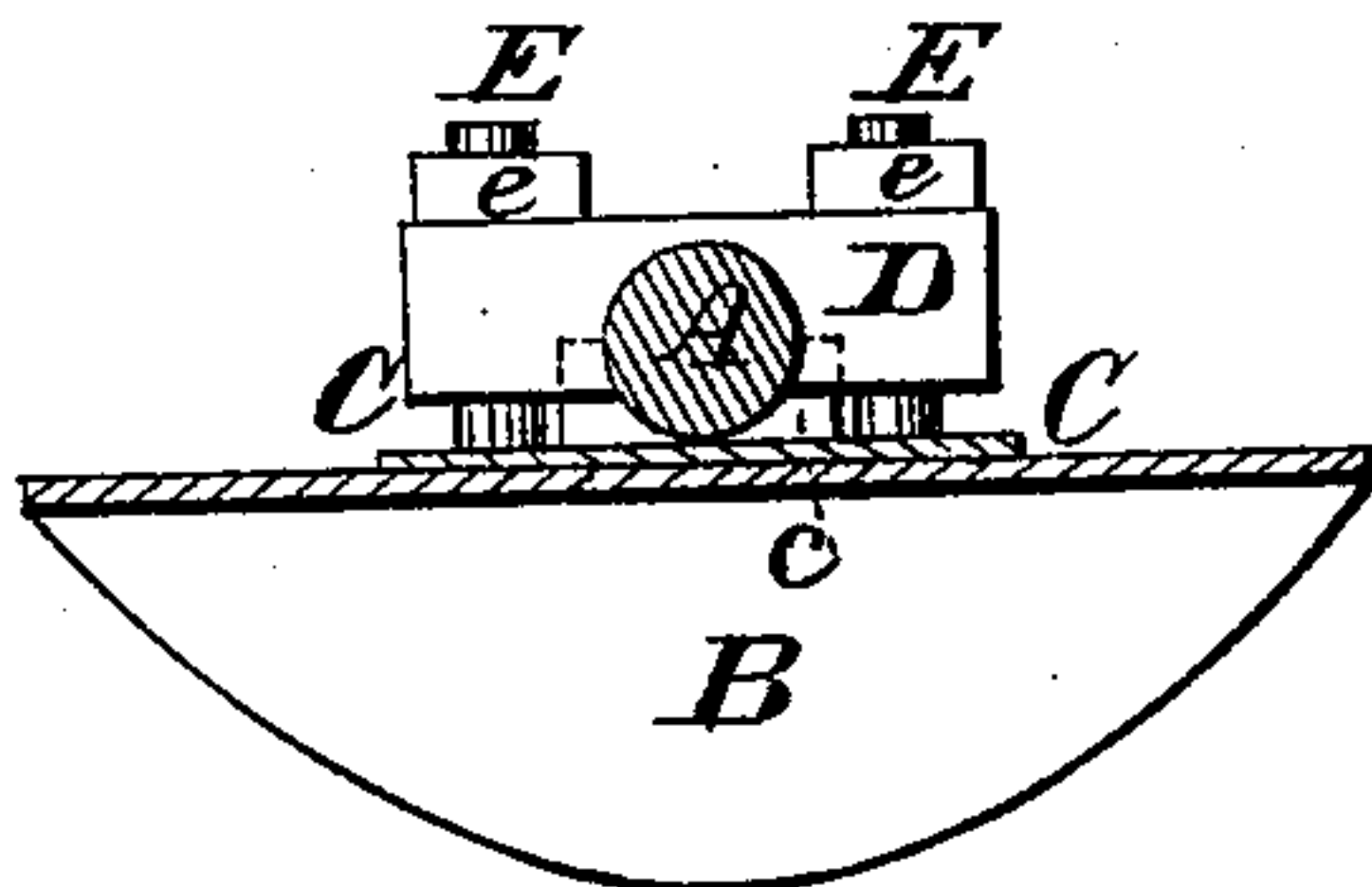
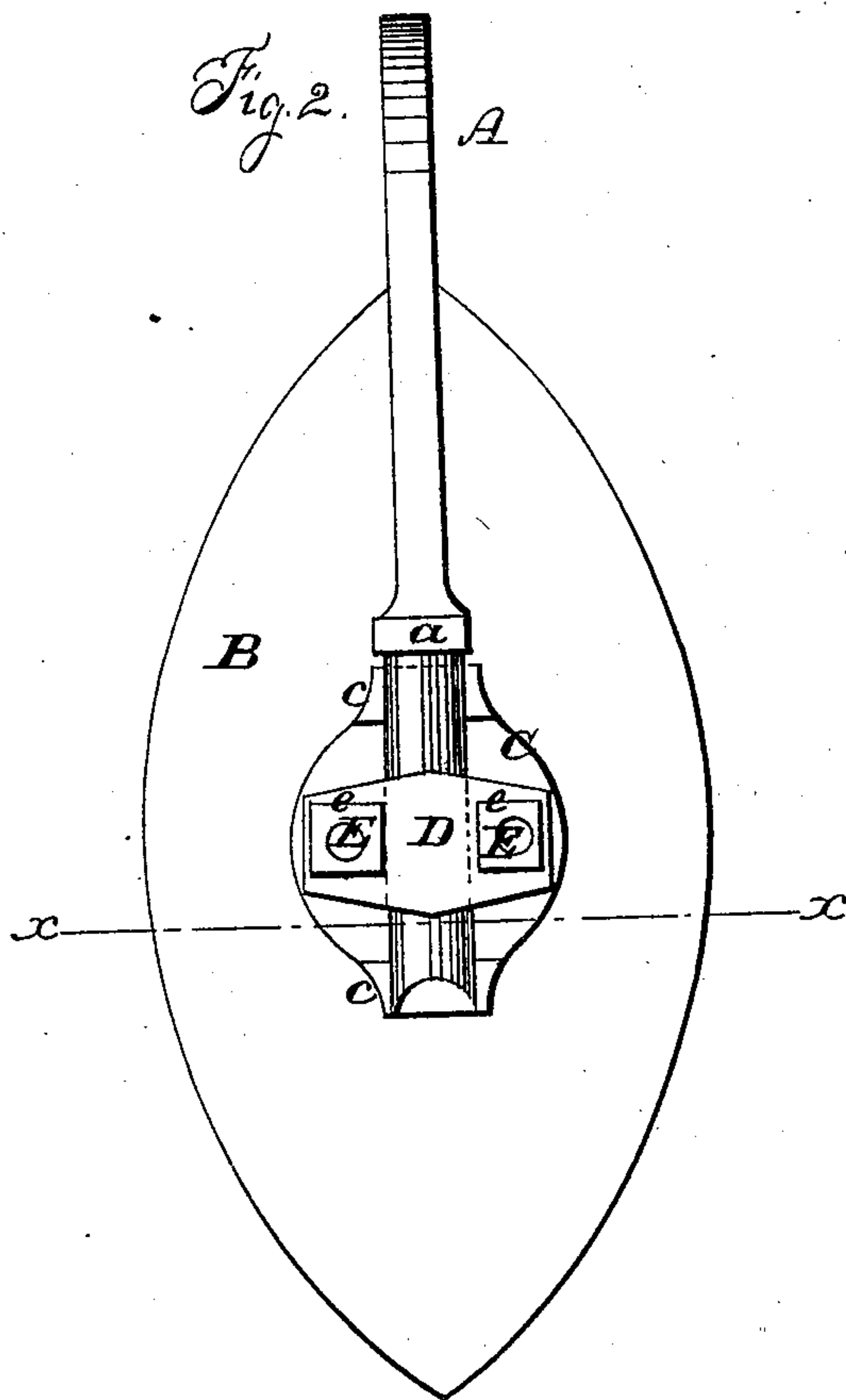


Fig. 2.



Witnesses.

Chas A Pettit
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Inventor.

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United States Patent Office.

B. F. McCOLLESTER, OF CALIFORNIA, MISSOURI.

Letters Patent No. 81,188, dated August 18, 1868.

IMPROVEMENT IN SHOVEL-PLOWS.

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, B. F. McCOLLESTER, of California, in the county of Moniteau, and State of Missouri, have invented a new and improved Shovel-Plow; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a horizontal section through line *x x* of fig. 2.

Figure 2 is a front elevation.

The object of this invention is so to construct and attach shovel-plows to their standards or beams that they can be adjusted at any inclination, and, when worn out or injured on one end, can be reversed without difficulty.

In the drawings—

A indicates the standard or beam, and B is the shovel-plow, the latter having its two ends symmetrical, so that either end, at pleasure, may be set downwards to perform the work.

Attached to the centre of the shovel, on the rear side, is a plate, C, having a projection, *c*, at each end, each of the projections being provided with a socket or bed, in its rear edge, to receive and hold the lower end of the standard. The latter is, at its lower end, rounded, so as to fit neatly into the bed prepared for it. When in this position, a block, D, of metal, having a similar socket or bed in its front side, is placed across the standard, about midway between the projections or lugs, *c c*, and is secured in that position by means of two bolts, E E, one at each end. The bolts pass through the block D, and also through the plate C and plow B, forming the only means of attaching the plate to the plow, and the plow to the standard, and at the same time the only means of clamping the block against the plow-standard, so as to hold the latter securely and firmly. The bolts E E are provided with screw-nuts *e e*, by which they can be tightened up to any required degree. The standard A may be provided with a shoulder, *a*, which shall rest against the upper lug, *c*, and prevent the plow from working upward, or the clamp alone may be left to control the plow, and hold it in place.

It is obvious that, with this device for attaching the blade of the plow to the standard, the plow can be set at any inclination, to one side or the other. By leaving off the shoulder *a*, it can also be adjusted up and down, to any extent required. When worn out at one end, it is only necessary to reverse it, and it will still outwear a new plow, without repairs or further expense.

It is believed that in simplicity, economy, and convenience, this combination of double-pointed plow and fastening is unrivalled by anything now in use.

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

The combination of the double-pointed shovel-plow B with the standard A, plate C, having lugs *c c*, block D, bolts E E, and screw-nuts *e e*, substantially as and for the purpose above set forth.

To the above specification of my improvement, I have signed my hand, this 13th day of June, 1868.

B. F. McCOLLESTER

Witnesses:

J. M. HARDY,

J. T. ADAMS.