

I. U. DUNNAVANT & W. A. HAMPSON.

Cultivator.

No. 165,552.

Patented July 13, 1875.

Fig. 1.

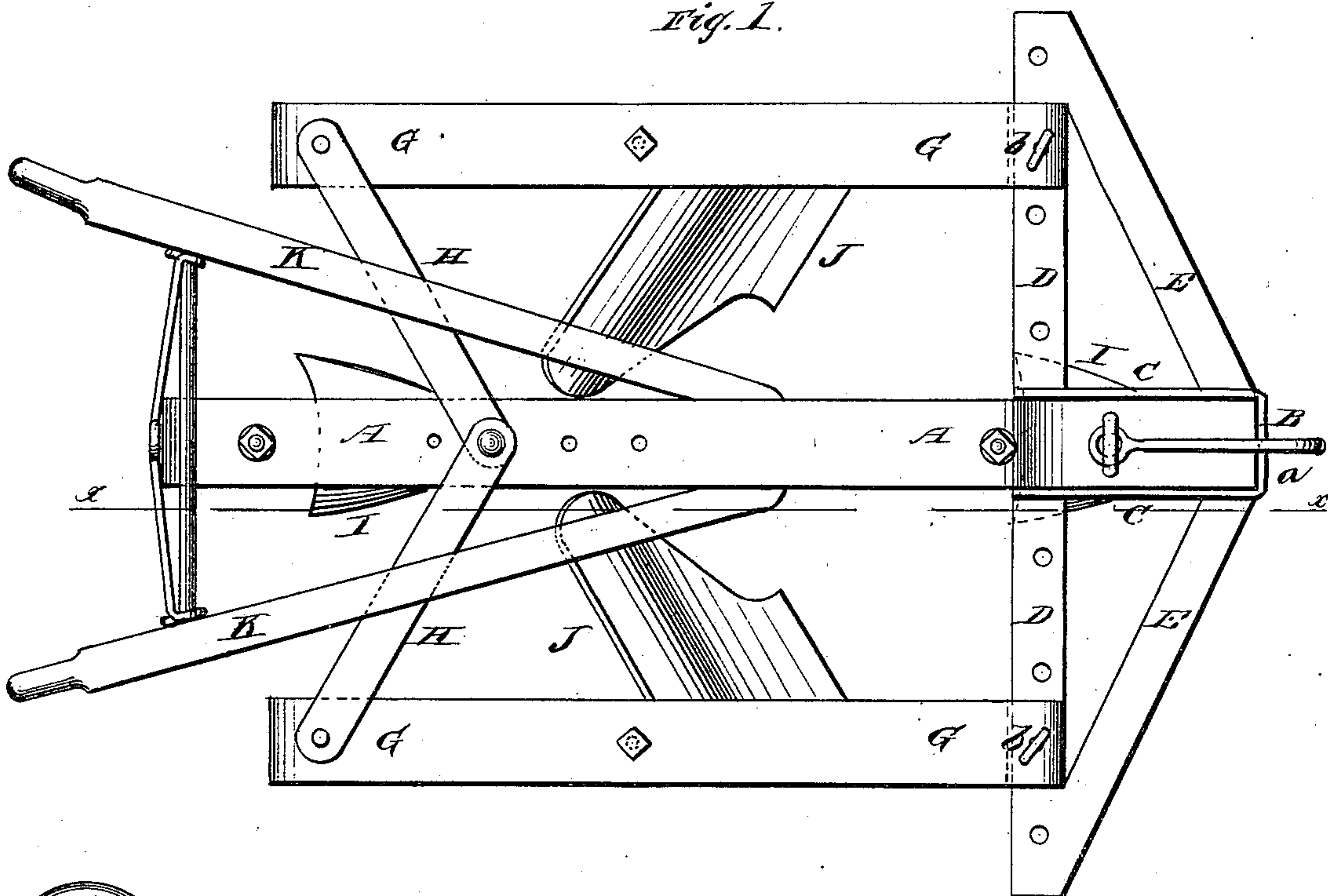
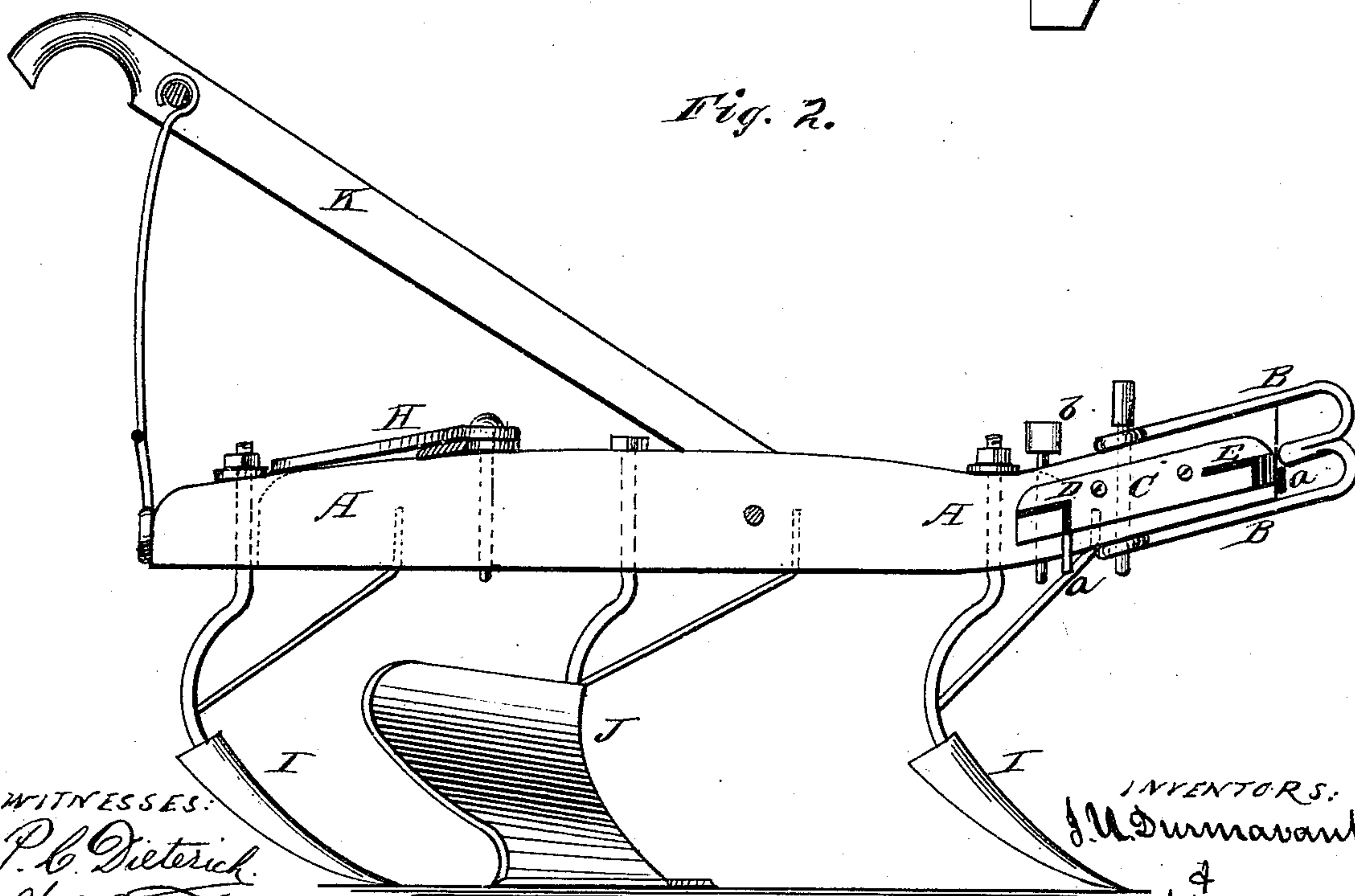


Fig. 2.



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JAMES U. DUNNAVANT AND WILLIAM A. HAMPSON, OF BYHALIA, MISS.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **165,552**, dated July 13, 1875; application filed March 15, 1875.

*To all whom it may concern :*

Be it known that we, JAMES U. DUNNAVANT and WILLIAM A. HAMPSON, of Byhalia, in the county of Marshall and State of Mississippi, have invented certain new and useful Improvements in Gang-Plows; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of our invention consists in the construction and arrangement of a gang-plow, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view; and Fig. 2 is a central vertical section on the line *xx*, Fig. 1.

A represents the ordinary or main plow-beam, at the front end of which is the clevis B, arranged to change the draft up and down, as desired. A metallic frame is attached to each side of the beam A at the front end, said frame consisting of a plate, C, fastened to the beam, with a bar, D, extending therefrom at right angles from the rear end, and a brace, E, connecting the outer end of the bar with the front end of the plate. The bar D and brace E are provided with downward-projecting flanges along their front edges to strengthen the same, and the two frames are connected by bands *a a*. It will thus be observed that we derive a great advantage from this mode of constructing the front part of our cultivator, as we not

only combine lightness with strength, but also provide against the strains to which this portion of the machine is subjected, as the frame C D E, with its bracing-bands *a a*, connects and holds said part of the cultivator rigidly and securely. G G represent side beams, the front ends of which are slotted to straddle the bars D D, and are fastened thereto by pins *b b* passing through them, as shown. The rear ends of the side beams are connected with the main beam A by means of bars or braces H H, as shown. The front ends of the side beams G G may be adjusted out or in from the main beam by simply removing the pins *b b* and changing the position of the side beams on the bars, and inserting the pins again, the bars being perforated for that purpose. To the main or center beam A are secured shovel-plows I I, and to each side beam a turn-plow, J. K K are handles secured and braced to the main beam A.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The flanged metal frame C D E, with its connecting-bands *a a*, adapted to allow of the adjustment of the side beams, all constructed and arranged as set forth.

In testimony that we claim the foregoing as our own, we affix our signatures in presence of two witnesses.

JAMES U. DUNNAVANT.  
WM. A. HAMPSON.

Witnesses:

PHILIP RAIFORD,  
SCOTT DAVIS.