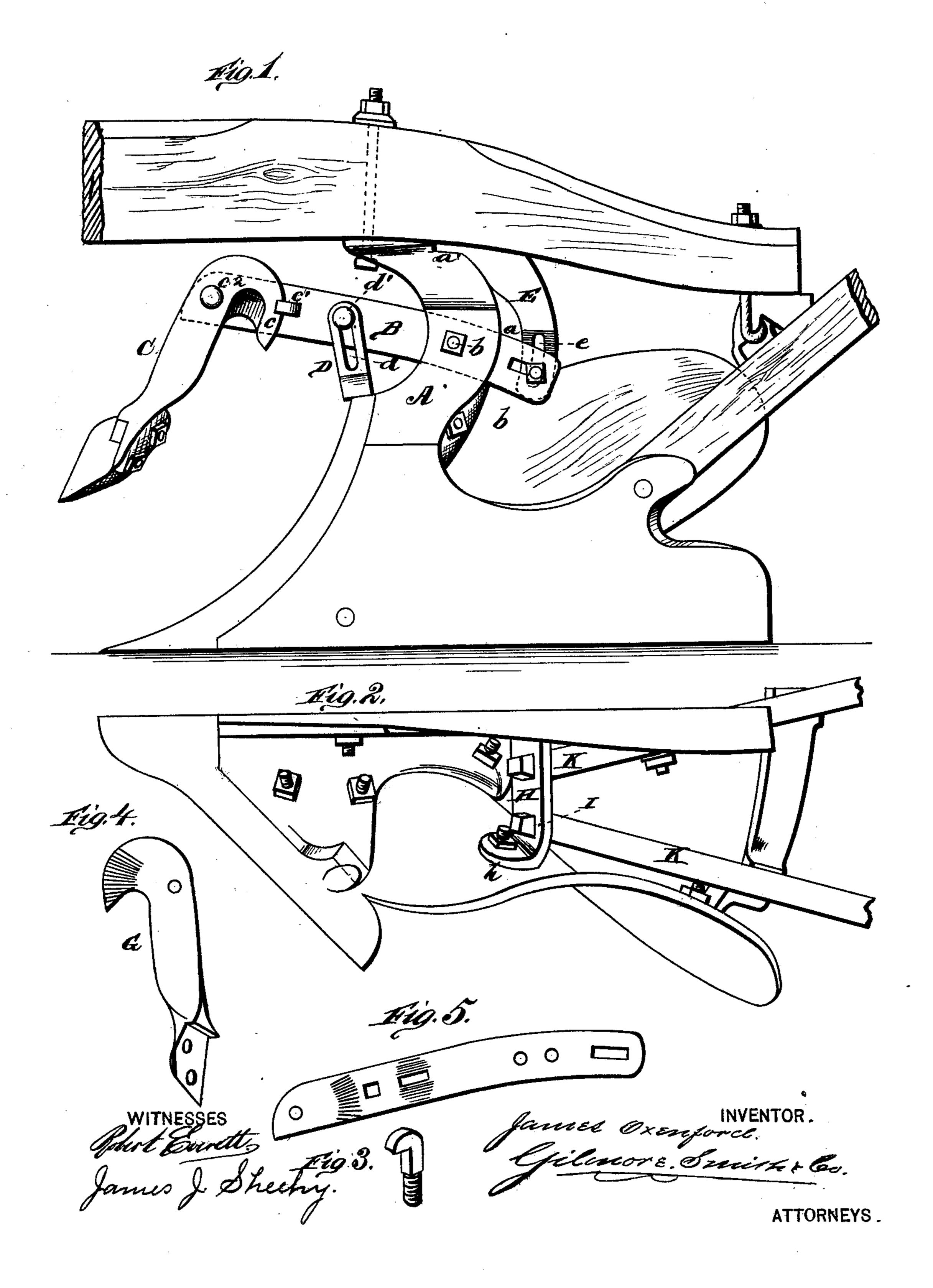
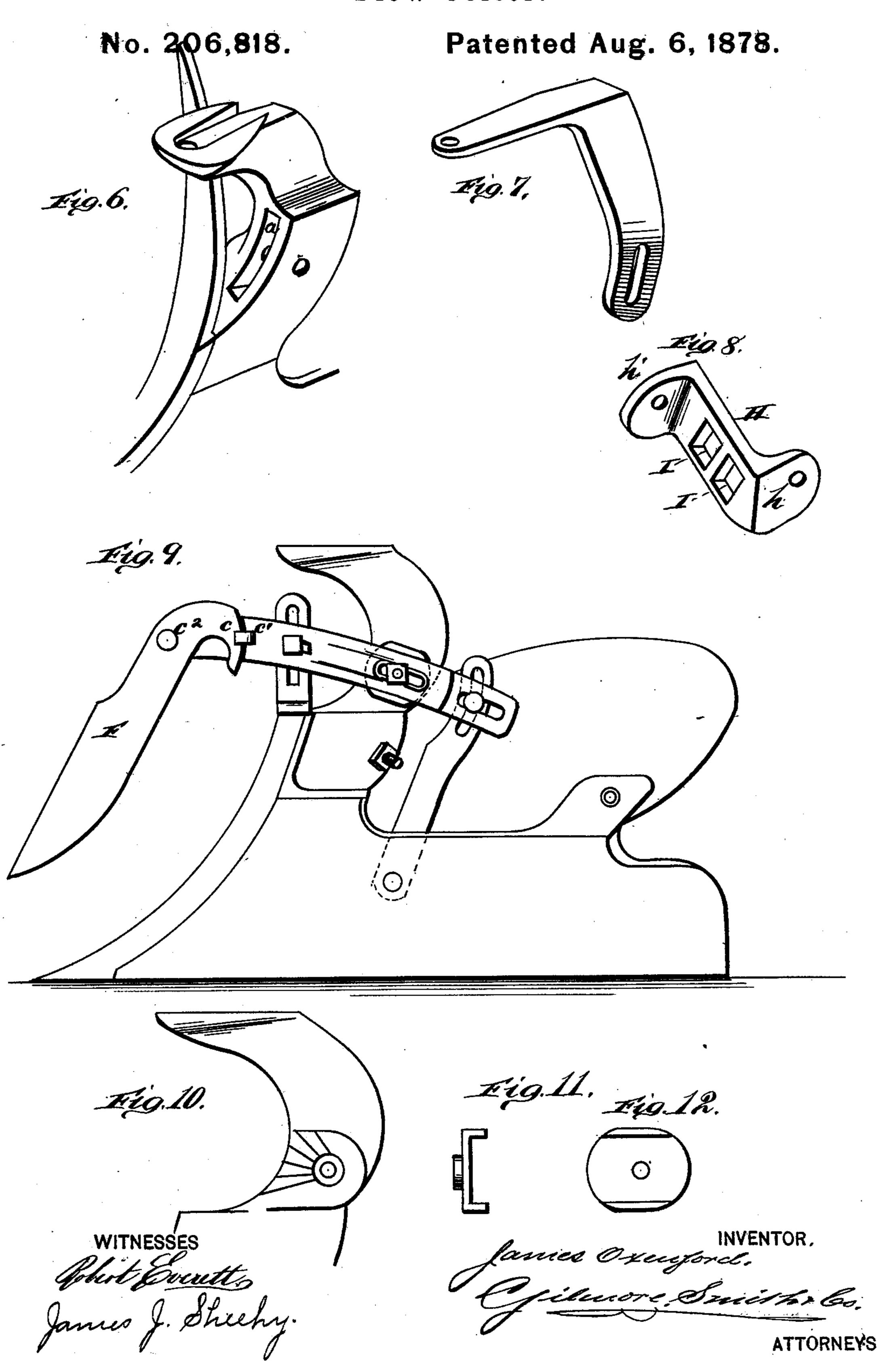
J. OXENFORD. Plow-Colter.

No. 206,818.

Patented Aug. 6, 1878.



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United States Patent Office.

JAMES OXENFORD, OF KALAMAZOO, MICHIGAN.

IMPROVEMENT IN PLOW-COLTERS.

Specification forming part of Letters Patent No. 206,818, dated August 6, 1878; application filed June 29, 1878.

To all whom it may concern:

Be it known that I, James Oxenford, of Kalamazoo, in the county of Kalamazoo and State of Michigan, have invented a new and valuable Improvement in Plow-Colters; 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side view of my plow and colter. Fig. 2 is a bottom-plan view. Figs. 3, 4, 5, 6, 7, and 8 are perspective details. Fig. 9 is a side view of a modification; and Figs. 10, 11, and 12 are detail modi-

fication views.

My invention consists in a mortised plowstandard, through which passes an adjustable colter-beam roughened at each end on opposite sides, one to furnish bearing for the colter | or jointer and the other for attachment to a brace. The side of the colter is also roughened, and it is secured to the beam by a headed bolt upon one side, which bolt engages and binds the curved arm of the colter, and an ordinary bolt and nut upon the other. A short slotted brace is pivoted to the colter-beam and rests upon the top of the mold board or point, and this brace is between the standard and the colter. The rear end of the colterbeam is slotted, as also is the brace to which it is secured, and these slots in the two braces allow the colter-beam to be adjusted at will. The jointer and colter are interchangeable, either being used, as desired.

Referring to the drawings, A represents the plow-standard, provided with a mortise, a, through which passes colter-beam B, bolted

to the standard at b.

The beam B is roughened or corrugated at each end on opposite sides, the one b^1 furnishing a bearing for the curved arm c of the colter C, which is firmly held to the beam B by a headed bolt, c^1 , which engages the arm c, and a bolt, c^2 , which passes through beam and colter-arm, and is held by a nut. The inner

side of the colter-arm is roughened to correspond with the rough surface on the beam.

Pivoted to the beam B, between the colter and standard, is a short brace, D, slotted at

d to receive a headed bolt, d'.

E represents a brace, curved and extending upward, which engages against the plow-beam on its upper surface, and also against a dovetail shoulder, a', in the standard A. The lower end of this brace is roughened to correspond with the roughened surface on the side of the rear end of the colter-beam B, and a slot, e, receives a headed bolt, which passes through a transverse slot, b^2 , in the beam, and secures them together by means of a nut. By means of these slots the colter-beam may be adjusted at will, as is obvious.

The same means and mode of attachment may be applied to either the colter F or the jointer G, as the shank or arm on each are identical in form, and they are readily inter-

changeable at will.

H represents a stout metal cross bar or brace, having an elbow, h, by which it is bolted to the mold-board, and another elbow, bent in an opposite direction, by which it is bolted to the land-side. I represents mortises or apertures adapted to receive and furnish easy and secure bearings for the handles K, which extend upward and are secured by a hook-bolt to the plow-beam.

What I claim as new, and desire to secure

by Letters Patent, is—

The combination of the adjustable colterbeam B, having roughened surfaces on opposite sides, as shown, and slots to secure adjustment, with the slotted braces D E, curved colter-arm c, headed bolt c^1 , and standard A a a', as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the pres-

ence of two witnesses.

JAMES OXENFORD.

Witnesses:

SAMUEL W. OXENFORD, W. S. McKinney.