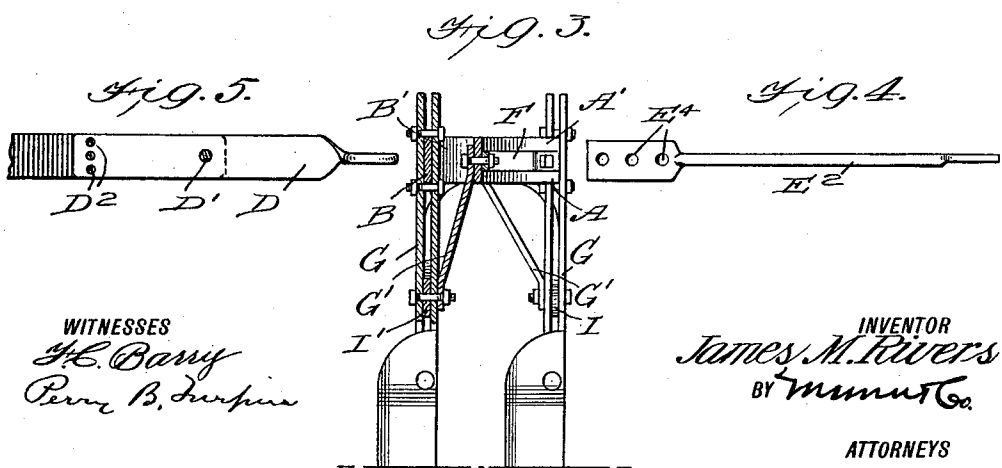
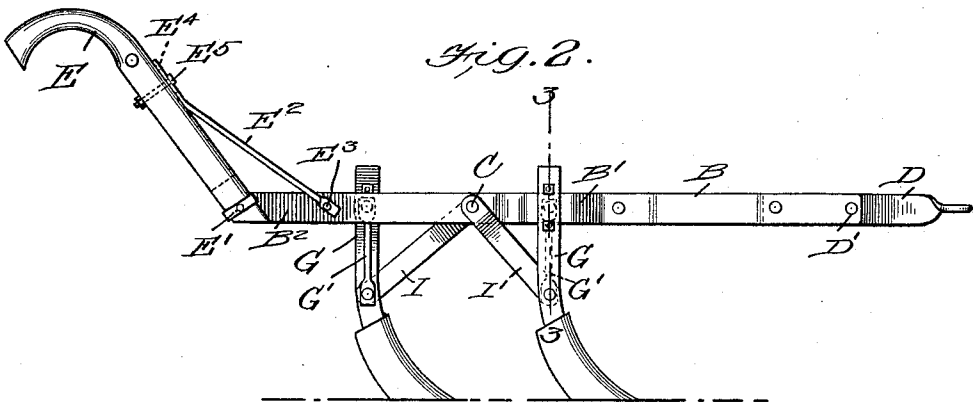
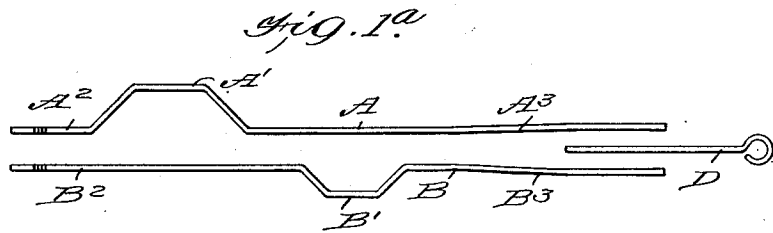
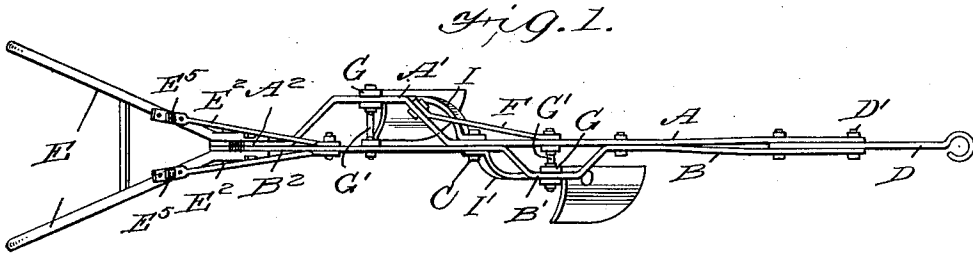


J. M. RIVERS.
 PLOW BEAM.

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1,031,588.

Patented July 2, 1912.



WITNESSES
H. C. Barry
Perce B. Turpin

INVENTOR
James M. Rivers
 BY *Wm. M. Co.*

ATTORNEYS

UNITED STATES PATENT OFFICE.

JAMES M. RIVERS, OF FORT MEADE, FLORIDA.

PLOW-BEAM.

1,031,588.

Specification of Letters Patent.

Patented July 2, 1912.

Application filed December 12, 1911. Serial No. 665,248.

To all whom it may concern:

Be it known that I, JAMES M. RIVERS, a citizen of the United States, and a resident of Fort Meade, in the county of Polk and State of Florida, have invented certain new and useful Improvements in Plow-Beams, of which the following is a specification.

This invention is an improvement in plow beams and has for an object to provide a novel construction of metallic beam which will be light, will effectively serve its purpose and will permit the adjustment of the different parts as desired in the practical use of the invention; and the invention consists in certain novel constructions and combinations of parts as will be hereinafter described and claimed.

In the drawing Figure 1 is a top plan view of a plow embodying my improvements. Fig. 1^a shows the two bars or sections of the beam side by side and spaced apart from each other and from the draft bar. Fig. 2 is a side view of the plow. Fig. 3 is a vertical section on about line 3—3 of Fig. 2. Fig. 4 is a top plan view of one of the brace bars for the handles. Fig. 5 is a detail view showing the connection between the beam and the draft bar.

As best shown in Figs. 1 and 1^a, the beam comprises two side bars or sections A and B fitted side by side and provided each with a lateral plow supporting offset A' and B', the offset A' being arranged in rear of the offset B' and the said sections A and B being provided in rear and in advance of their respective offsets with extensions or portions A², B², A³, B³. The rear extension A² of the section A is shorter than the corresponding portion B² of the section B, while the front extension or portion A³ of the section A is longer than the corresponding portion B³ of the section B, the front and rear extensions of both sections being so proportioned that the front and rear ends of the sections A and B terminate at practically the same point and the said front and rear extensions are secured together by cross-bolts or rivets in front and rear of the two offsets and a bolt or rivet C connects the sections or bars A and B intermediate the two offsets. By this construction, I am able to make the beam of comparatively thin bars of steel as each bar operates to brace and reinforce the other when the parts are assembled as shown in the drawing.

The draft bar D is secured between the bars A and B at their front ends and is practically pivoted at D' and provided in rear thereof with a series of holes D² so the draft bar may be adjusted at its front end up or down to suit horses of different heights.

Handle bars E are pivoted at E' to the rear ends of the bars A and B and are braced by bars E² bolted at their lower ends at E³ to the beam bars and having at their upper ends a series of bolt holes E⁴ to receive the bolt E⁵ which secures said brace bars to the handles E so the handles E may be adjusted on their pivots at E' and secured in any desired adjustment by the arrangement of the bolt E⁵ in the proper bolt hole E⁴ as will be understood from Figs. 1, 2 and 4 of the drawing.

A truss rod F extends between the rear offset A' and a point about opposite the front offset B' and is suitably secured at its ends to brace the beam by a truss action intermediate the two offsets.

The plow standards G are bolted to their respective offsets and are braced laterally by rods G' leading from their standards to their bars A or B as the case may be directly opposite their respective offsets.

Strut braces I and I' brace the rear and front standards, being secured at their upper ends by the bolt C which unites the side bars or sections A and B at a point between the two offsets.

By the construction of beam before described, I am able to get the greatest strength with light machine steel and at the same time provide a construction which conveniently serves the purpose for which it is designed.

I claim:

1. The combination of a beam composed of side bars or sections secured side by side and provided each with a lateral offset, and that of one section being disposed in advance of that of the other, plow standards supported by said offsets and a draft bar at the front end of the beam.

2. A plow beam comprising two bars side by side and provided each with an outwardly projecting offset, the offset of one bar being in advance of that of the other bar and the body portion of each bar extending both in front and in rear of the offset portion of the other bar and means securing said body portions together in ad-

vance and in rear of the two offset portions and at a point intermediate the said portions, substantially as set forth.

3. A plow beam comprising two bars side
5 by side and of substantially the same length and provided with an outwardly projecting offset, the offset of one bar being in advance of that of the other bar, and the bars being provided with extensions in front and rear
10 of their offsets with the portions of the two bars in front and rear of the offsets secured together, each of said bars extending across the offset of the other bar, substantially as set forth.

15 4. A plow beam comprising two bars side by side and provided with an outwardly projecting offset, with the offset of one bar in advance of the offset of the other bar and a truss secured to the beam and crossing

the portion thereof intermediate the two 20 offsets, substantially as set forth.

5. A plow beam comprising two bars side by side and provided each with an outwardly projecting offset and with front and rear extensions or portions beyond their re- 25 spective offsets, the front and rear extension of the bar having the rear offset being respectively longer and shorter than the corresponding portions of the other bar and so proportioned relatively thereto that the 30 ends of the two bars will terminate at practically the same points, substantially as set forth.

JAMES M. RIVERS.

Witnesses:

J. J. VICKERS,

M. M. LOADHOLTES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."