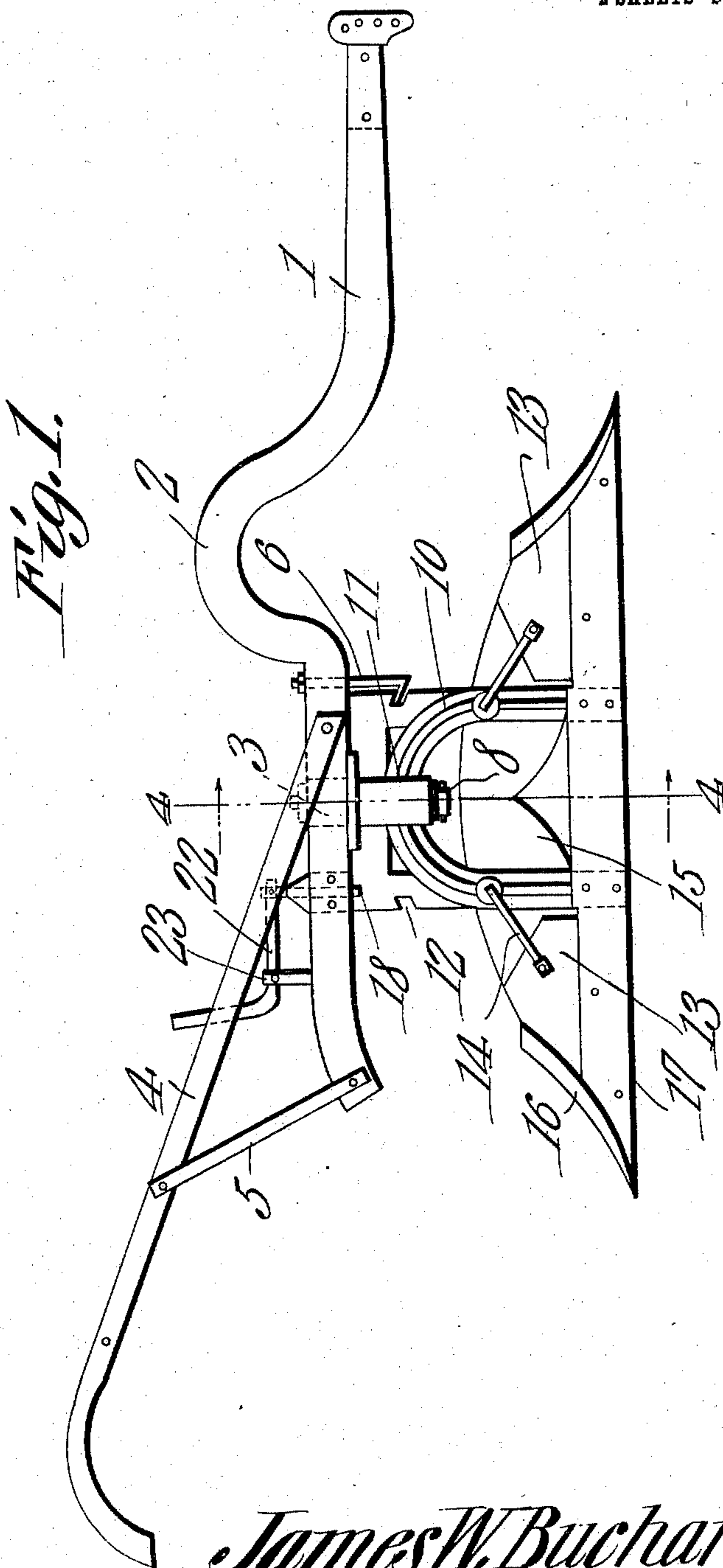


J. W. BUCHANAN.
 REVERSIBLE PLOW.
 APPLICATION FILED SEPT. 9, 1909.

966,791.

Patented Aug. 9, 1910.

2 SHEETS—SHEET 1.



Witnesses

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334

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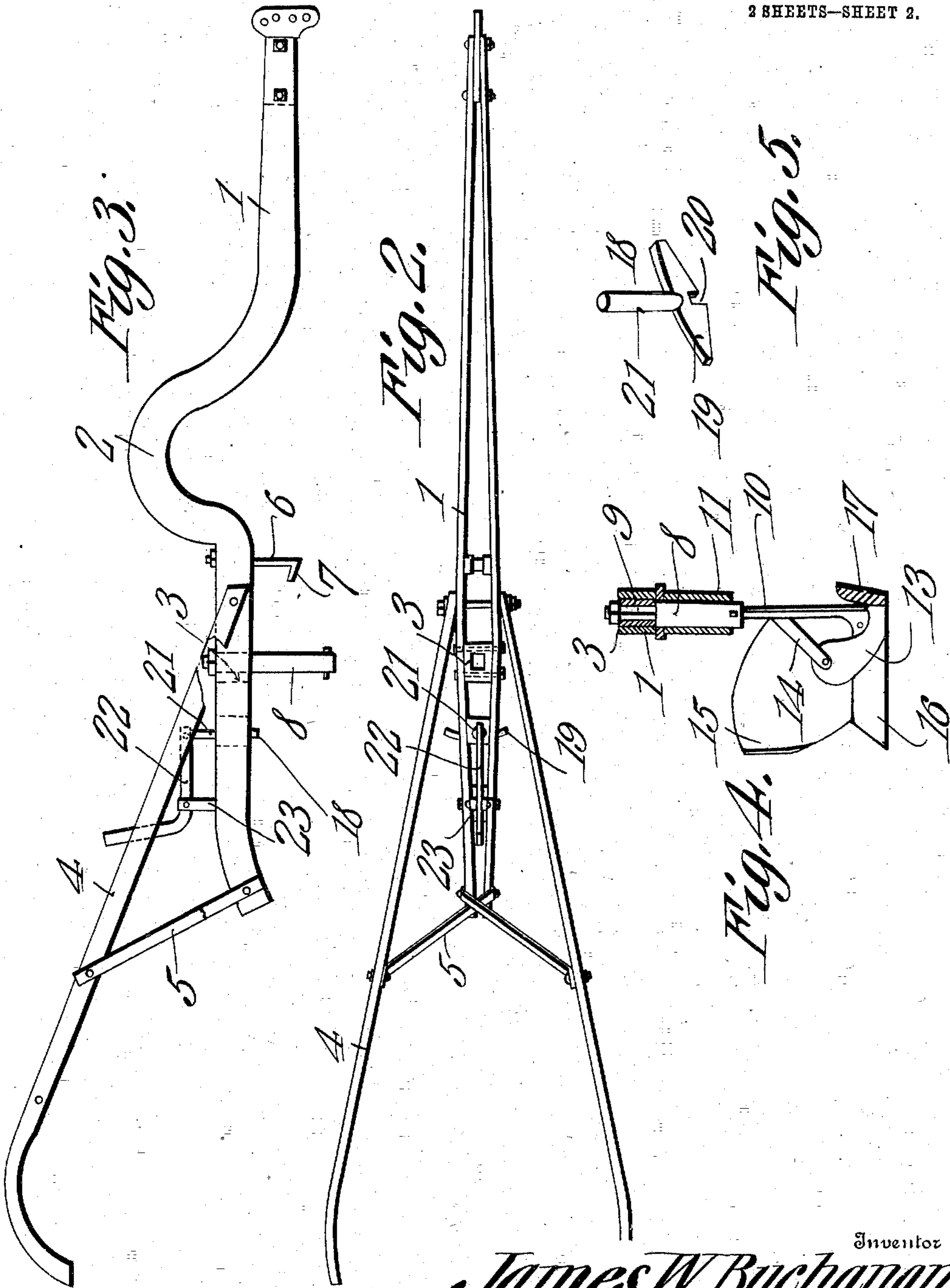
Attorneys

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Witnesses

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UNITED STATES PATENT OFFICE.

JAMES W. BUCHANAN, OF ASHEVILLE, NORTH CAROLINA.

REVERSIBLE PLOW.

966,791.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed September 9, 1909. Serial No. 516,877.

To all whom it may concern:

Be it known that I, JAMES W. BUCHANAN, a citizen of the United States, residing at Asheville, in the county of Buncombe and State of North Carolina, have invented a new and useful Reversible Plow, of which the following is a specification.

This invention has relation to reversible plows and it consists in the novel construction and arrangement of its parts to be hereinafter shown and described.

The object of the invention is to provide a simple and durable plow of the character indicated in which is employed a beam made up of side sections having their end portions approaching each other and bowed from each other at their intermediate portions. Blocks are inserted between the side sections of the beam and in one of the said blocks is fixed a pintle upon which is journaled an approximately arch-shaped standard. Oppositely disposed doubled mold boards, shares and land sides are carried by the standard and braces are interposed between the lower portions of the standard, and the frogs upon which the said mold board, shares and land side plates are mounted. A catch device is carried by the beam and is adapted to engage the said standard to retain the same against rotation when desired and a bracket hook is mounted upon the beam and is adapted to engage the edges of recesses provided at the edges of the standard whereby the standard is braced against movement in a vertical plane and consequently the pintle is relieved of strain incident to plowing as one or the other of the said set of mold boards, shares and land side plates are turning a furrow slice.

In the accompanying drawings: Figure 1 is a side elevation of the plow. Fig. 2 is a top plan view of the same. Fig. 3 is a detailed side elevation of the beam portion of the plow with parts broken away. Fig. 4 is a transverse section of the plow cut on the line 4-4 of Fig. 1. Fig. 5 is a perspective view of a portion of the catch mechanism used upon the plow.

The plow beam includes two side pieces 1 which are spaced from each other at their intermediate portion and converge toward each other at their ends. The side pieces 1 are upwardly bowed at an intermediate point as at 2. A block 3 is inserted between the intermediate portions of the side pieces 1 at a point behind the upwardly bowed portion

2. Handles 4 are mounted upon the rear portions of the side pieces 1 and are sustained in proper position by means of braces 5. A hook 6 is supported between the side pieces 1 and its lower end is provided with an upwardly and rearwardly disposed extremity 7. A pintle 8 is provided with a squared or non-circular shank portion 9 which fits snugly in a similar opening provided in the block 3 and inasmuch as the said block is held against rotation with relation to the side pieces 1 of the beam and the said shank 9 fits snugly in the said block the shank is restrained against rotation with relation to the beam. An arch-shaped standard 10 is provided at its upper end and at a point intermediate its forward and rear edges with a sleeve 11 which is journaled for rotation upon the lower portion of the pintle 8. The said arched standard is also provided at its opposite edges with inclined recesses 12 adapted to receive the upwardly and rearwardly disposed extremity 7 of the hook 6. Plow frogs 13 are attached to the opposite end portion of the standard 10 and braces 14 are interposed between the intermediate portions of the said standard and the forward portions of the said frogs. Mold boards 15, plow shares 16 and land side plates 17 are mounted upon the frogs 13 and arranged in two sets disposed in opposite direction. A catch 18 includes a transversely disposed plate 19 having at its lower edge a recess 20 adapted to receive the upper edge of the standard 10. The said plate 19 is provided with an upwardly disposed arm 21 which in turn is pivotally connected with the forward end of a lever 22 fulcrumed upon a post mounted upon a beam of the plow.

From the above description it is obvious that when an operator swings the lever 22 so that the arm 21 and plate 19 will be moved vertically with relation to the plow beam the recess 20 provided in the lower end of the said plate 19 will be lifted above the upper edge of the standard 10 and that when the beam of which the side pieces 1 form component parts is free to swing around upon the axis of the pintle 8. Thus it is possible to dispose the forward ends of the beam over either of the sets of mold board shares and land sides and thus the plow as an entirety may be drawn in either of the two directions without turning the said standard 10 and its attachment. When

the beam of which the side pieces 1 form the component parts has assumed proper position over either of the plows carried by the standard 1 one of the recesses 12 in the
5 said standard will receive the upwardly and rearwardly disposed extremity 7 of the hook 6 and thus the said standard is braced in its position upon the lower portion of the pintle 8. At the same time the recess 12 in the
10 plate 19 will receive the upper portion of the opposite side of the standard 10 and thus the said standard is held against lateral movement with relation to the beam.

Having described my invention, what I
15 claim as new and desire to secure by Letters-Patent is:

A plow comprising a beam including side pieces converged toward each other at their ends and bowed from each other at intermediate portions, a block located between the
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side pieces at a point between the ends thereof, a pintle carried by said block, an arched standard having a sleeve journaled on said pintle and bearing at its upper end against the lower edges of the side pieces of the
25 beam, plows carried by the legs of said standard, a catch carried by the beam and adapted to engage the upper edge of the arched standard to hold the same against rotation upon the pintle, and a hook carried
30 by the beam and adapted to engage the forward edge of the arched standard to brace the same against rearward strain.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature
35 in the presence of two witnesses.

JAMES W. BUCHANAN.

Witnesses:

H. G. STAPLES,
W. H. DANIEL.