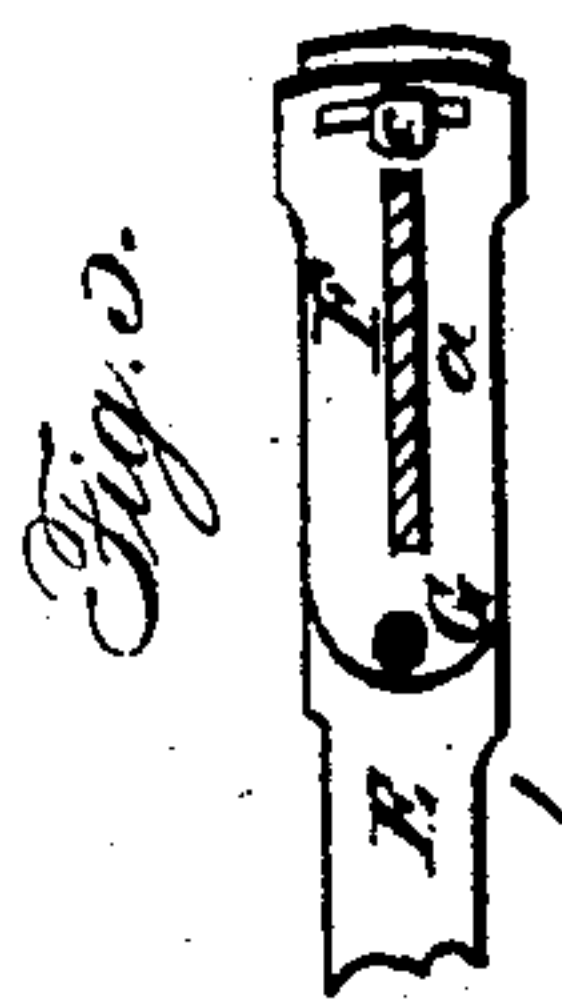
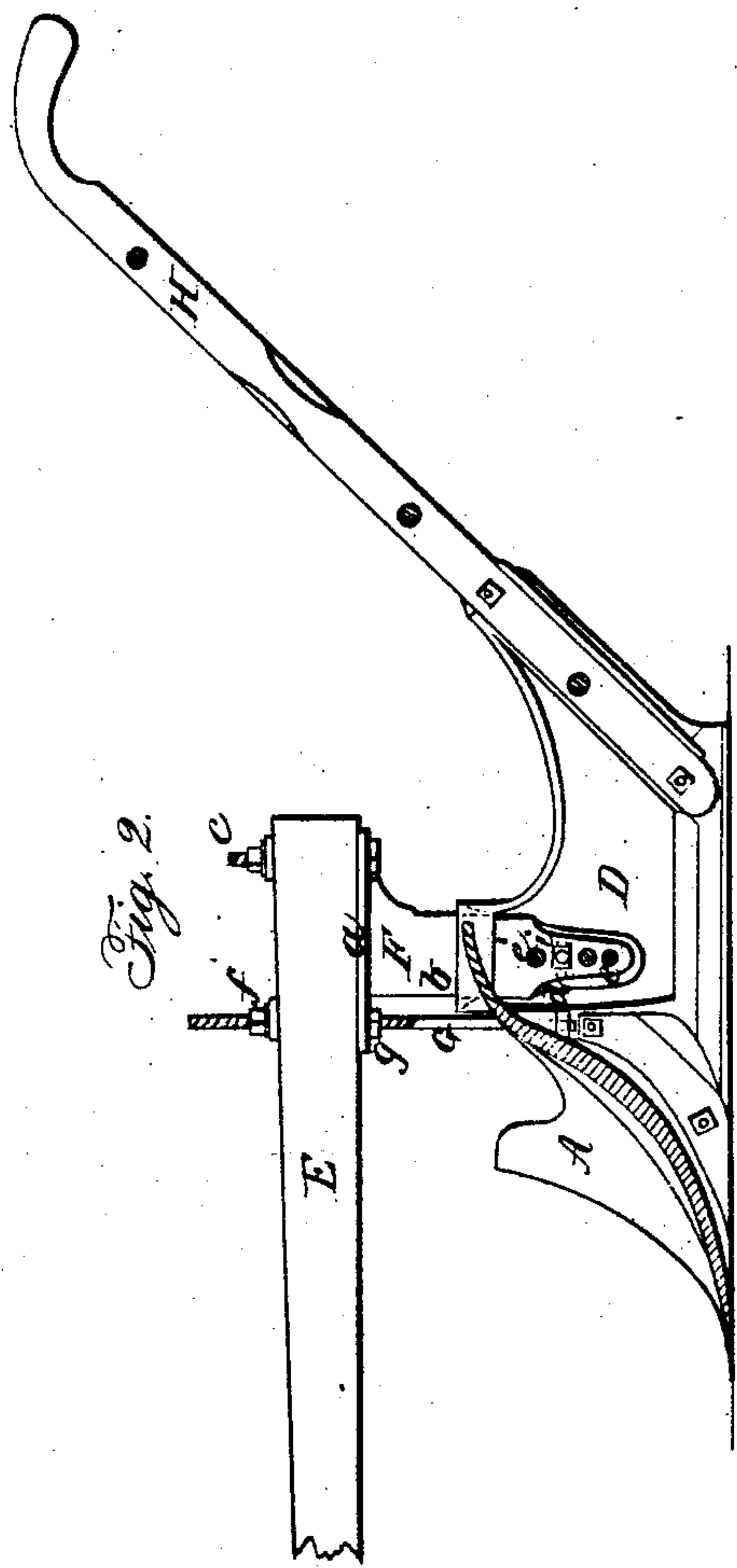
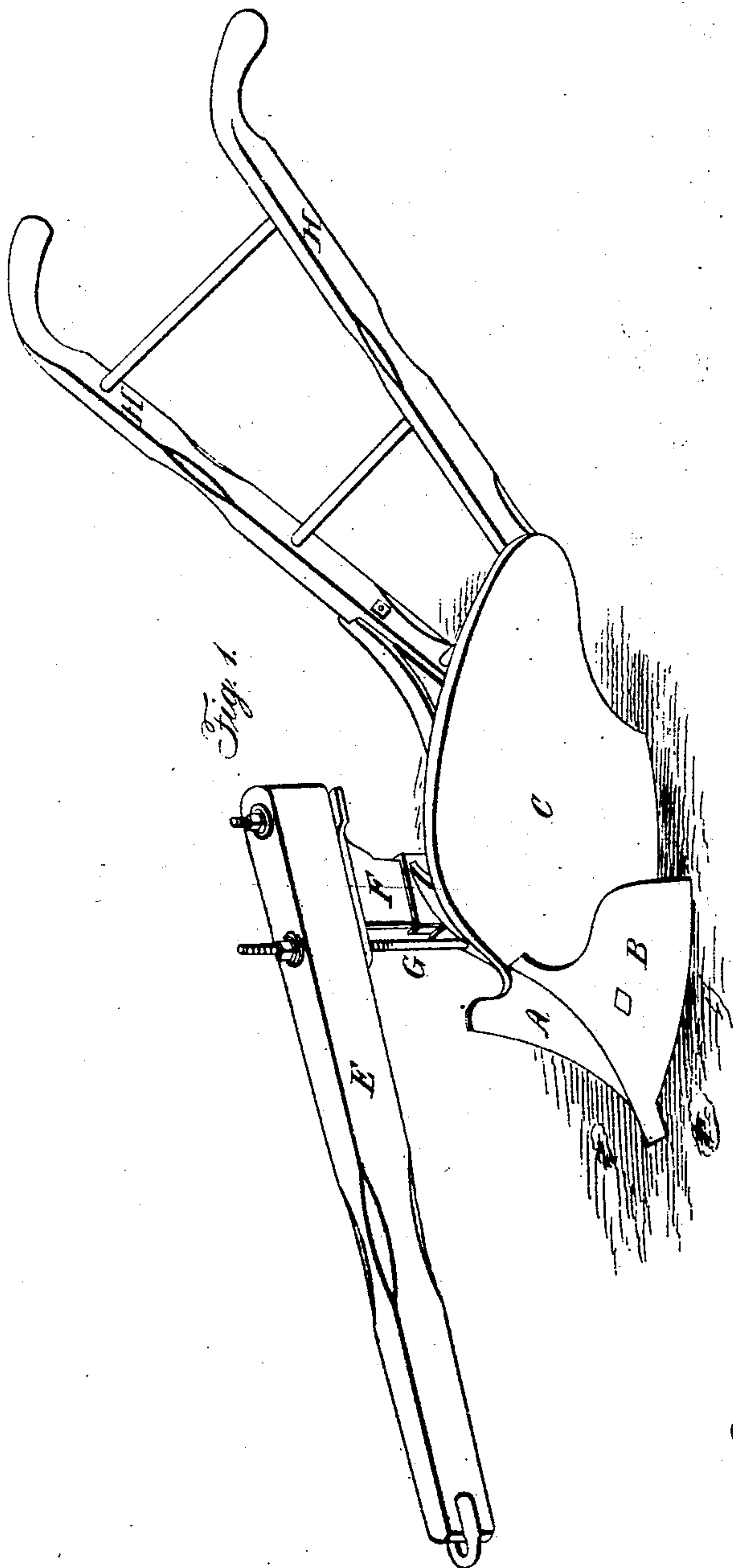


E. BALL.

Plow.

No. 8,819.

Patented Mar. 23, 1881



UNITED STATES PATENT OFFICE.

E. BALL, OF GREENTOWN, OHIO, ASSIGNOR TO I. N. McABEE.

PLOW.

Specification of Letters Patent No. 8,819, dated March 23, 1852.

To all whom it may concern:

Be it known that I, E. BALL, of Greentown, in the county of Stark and State of Ohio, have invented certain new and useful

5 Improvements in Plows, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, which forms part of this specification, and in which—

10 Figure 1 represents a view in perspective of my improved plow, Fig. 2 is a vertical longitudinal section of the same and Fig. 3 is a plan of a fragment of the beam and standard reversed.

15 In my improved plow the beam is connected with the acting members of the plow by an adjustable standard and bolt, by means of which the beam can be raised or lowered and its inclination in either a ver-

20 tical or horizontal direction can be varied to suit the different cases which may occur in practice.

In the accompanying drawing the acting members of the plow, that is to say those by

25 which the slice of earth is severed and turned over, and which consists mainly of the colter A, the share B, the mold board C, and the landside D, are firmly secured to each other so that they can all be moved

30 simultaneously without affecting their relative positions. These acting members are connected with the beam E by means of a standard F and a bolt G.

The standard consists of two parts, the

35 head and the body. The former of these is a flate plate *a* which is fitted to the under side of the beam and is perforated at its front extremity to admit the bolt G. It is also slotted at its hinder extremity to admit

40 another bolt *c*. The slot extends crosswise with the head and is curved to permit the beam E to be turned sidewise on the front bolt G as a center. The body of the stand-

45 ard consists of a flat plate *b* which depends from the under side of the head *a* and is perforated at its lower extremity with a series of holes *e*. This lower extremity is passed through an aperture formed in the upper

50 portion of the land side casting and bears against the inner face thereof, as shown at Fig. 2. It is secured to this casting by a bolt *i* which is passed through one of the holes *e* and through a slot in the casting, as shown by the dotted lines. The aperture

55 through which the standard is passed and the slot in the land side casting are of such shape as will permit the standard to be in-

clined forward and backward to vary the dip of the beam.

The adjustable bolt G is secured at its 60 lower extremity to an ear *d* cast fast to the land side. It is passed upward through the front bolt hole in the head of the standard F and through the beam E. It is also fitted with two nuts, the one *f* above and the other 65 *g* below the beam, by means of which it can be secured to the beam in any desired position.

The handles H H, by means of which the plow is directed, are attached directly to the 70 plow castings so that they have no connection with the beam.

The plow thus constructed can be readily adjusted to the different cases which occur in practice. If for example the vertical in- 75 clination of the beam to the shoe of the plow, or its dip, is to be altered, the nut of the standard bolt *i* is to be slackened and the nuts *f*, *g*, of the bolt G are to be turned in the direction required to give the beam a 80 greater or less dip as may be necessary. If the horizontal inclination, or the direction of the beam, is to be varied, the nut of the hinder bolt *c* is to be slackened to allow the beam to be turned on the front bolt G as a 85 center, after which the nut is retightened, and if the vertical distance of the beam from top of the landside is to be varied the nuts *f*, *g* of the front bolt are to be slackened and the standard bolt *i* is withdrawn from that 90 hole in the standard in which it is inserted. The beam can then be raised or lowered as required and can be made fast in its new position by reinserting the standard bolt 95 through a new bolt hole and tightening the nuts *f*, *g*, of the front bolt.

What I claim as my invention and desire to secure by Letters Patent is—

Connecting the beam to the plow-irons by means of a pivot and staybolt G and ad- 100 justable standard F the whole being constructed and arranged as described so that the front end of the beam can be set toward either side, or either extremity raised or lowered without changing the height of the 105 other, or both extremities raised simultaneously and equally or unequally, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

E. BALL.

Witnesses:

I. H. WISE,
D. H. HARMON.