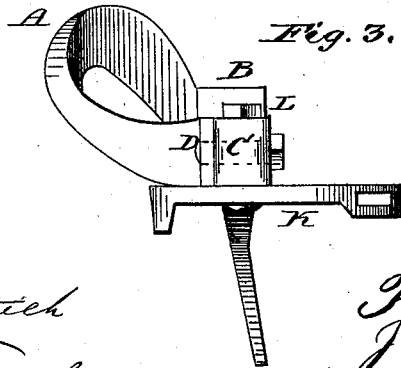
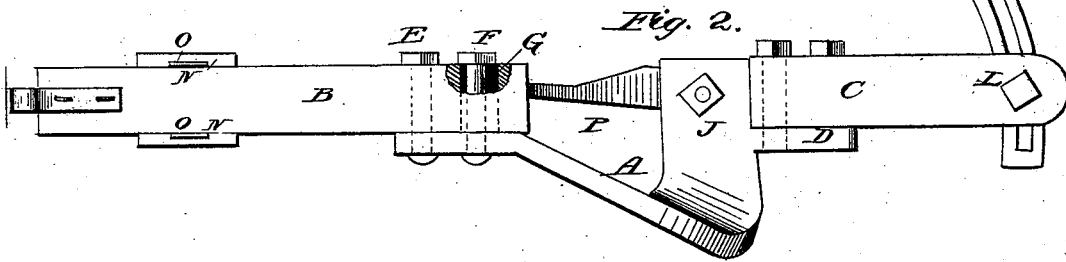
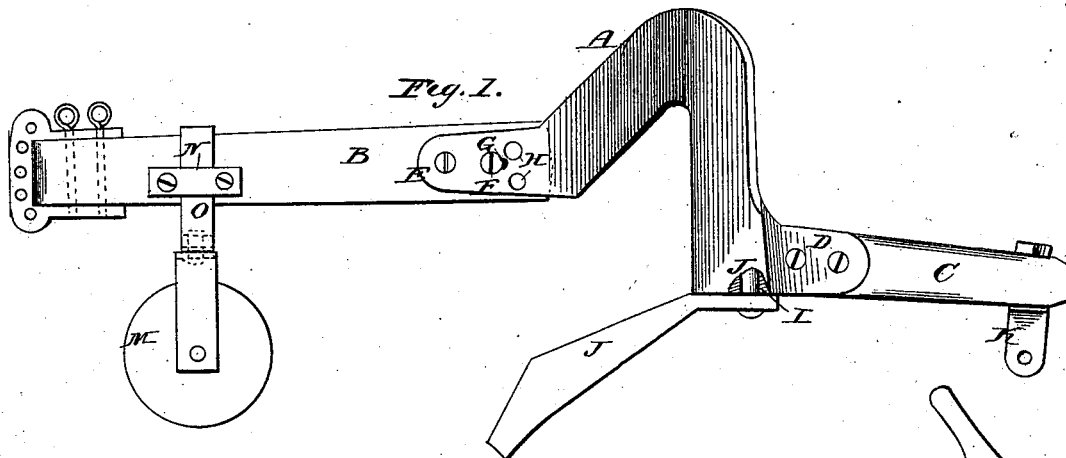


F. E. BUMP & J. W. GEAR.
Plow-Beam.

No. 207,497.

Patented Aug. 27, 1878.



Witnesses
And G. Dietrich
Geo. P. Brooks

Inventors
Frank E. Bump,
Joel W. Gear,
by C. A. Snow,
attorney.

UNITED STATES PATENT OFFICE.

FRANK E. BUMP AND JOEL W. GEAR, OF NEW CASSEL, WISCONSIN.

IMPROVEMENT IN PLOW-BEAMS.

Specification forming part of Letters Patent No. 207,497, dated August 27, 1878; application filed July 3, 1878.

To all whom it may concern:

Be it known that we, FRANK E. BUMP and JOEL W. GEAR, of New Cassel, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Plow-Beams; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side view of a plow-beam embodying the improvements of our invention. Fig. 2 is a plan view of the same, and Fig. 3 is a rear view of the improved plow-beam.

This invention has relation to improvements in plow-beams; and consists, first, of a plow-beam provided with a casting curved outwardly from the beam, and upwardly over and in front of the plow-shank, for the purposes of preventing the plowshare from becoming clogged, and of permitting the weeds, grass, &c., to pass around the share.

It consists, secondly, of a plow-beam provided with a casting curved outwardly from the beam, and upwardly over the shank of the plow, the front section of said plow-beam being adjustably connected to the forward end of said curved casting, the object being to permit adjustment of the beam to regulate the depth to which the plow may cut.

It further consists of improvements in the construction of said plow-beam, all of which will hereinafter be more fully described, and particularly pointed out in the claims.

In the accompanying drawing similar letters of reference indicate like parts of the invention.

The curved casting A is located near the middle of the plow-beam, which, in this instance, consists of the front section, B, and the rear section, C. The rear section, C, is firmly bolted to a flange, D, at the rear end of the curved casting A, and the front section, B, is adjustably connected to the side of the casting A, near its forward end, by the bolt E and the bolt F, the latter passing through a slot, G, in the section B. A series of holes, H, are made in the casting, into any one of which the bolt F may be inserted at will, to verti-

cally adjust the front section, B, of the plow-beam, and thus regulate the depth of the cut. The shank of the plow enters the slot I in the rectangular portion J of the casting A, and is secured by bolts and nuts in the ordinary manner. A curved slotted plate or bar, K, is adjustably secured to the rear end of the rear section, C, of the beam by the bolt L, and to this bar K the handles are fastened—the left handle to the end, and the right one beneath said bar K. A guide-wheel, M, having swivel-bearing, is connected to the front section, B, of the beam, and is made vertically adjustable by means of the removable plates N, which bind the arms O.

To regulate the depth to which the plow is to cut, it is only necessary to remove the bolt F, when the section B of the beam can be moved upwardly or downwardly on its pivot E, and the bolt F again inserted to hold it in the position to which it has been moved. The plates N need also to be loosened, and the wheel M adjusted to correspond with the adjustment given to the section B of the beam. The casting A curves to the left outwardly, backwardly, and upwardly, so that immediately in front and over the share there is an opening, P, in the beam, through which all weeds, grass, &c., pass, so that there can be no clogging of the plow, as is the case where the share enters the straight beam.

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

1. A plow-beam provided with the curved casting A, constructed and operating substantially as shown and described, and for the purposes set forth.

2. A plow-beam consisting of the fixed section C and vertically-adjustable section B, united by the landward-curved casting A, and provided with the adjustable wheel M, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

FRANK E. BUMP.
JOEL W. GEAR.

Witnesses:

GEORGE M. POWELL,
H. E. VARGELDER.