

(No Model.)

I. ANDERSON.

PLOW.

No. 332,862.

Patented Dec. 22, 1885.

Fig. 1.

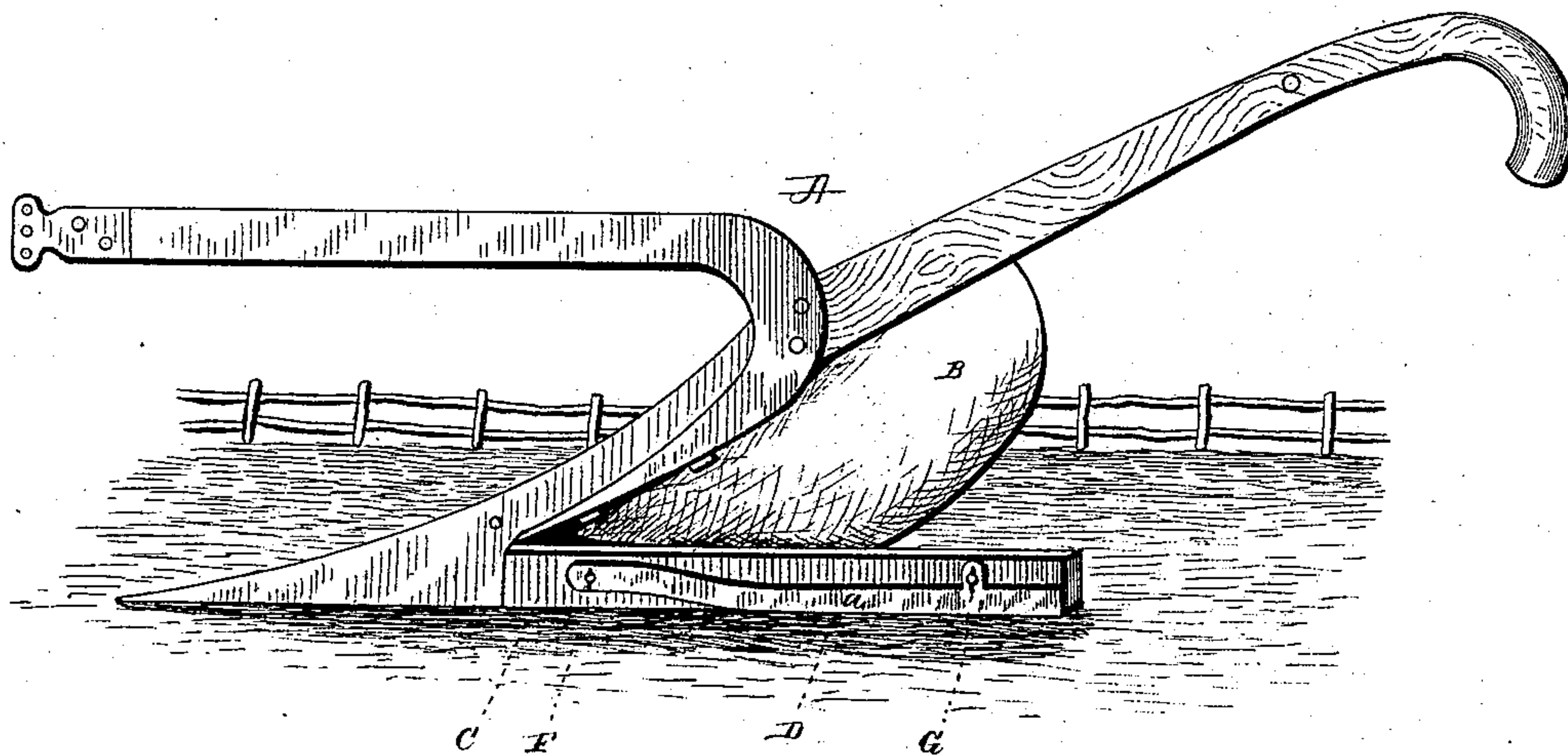
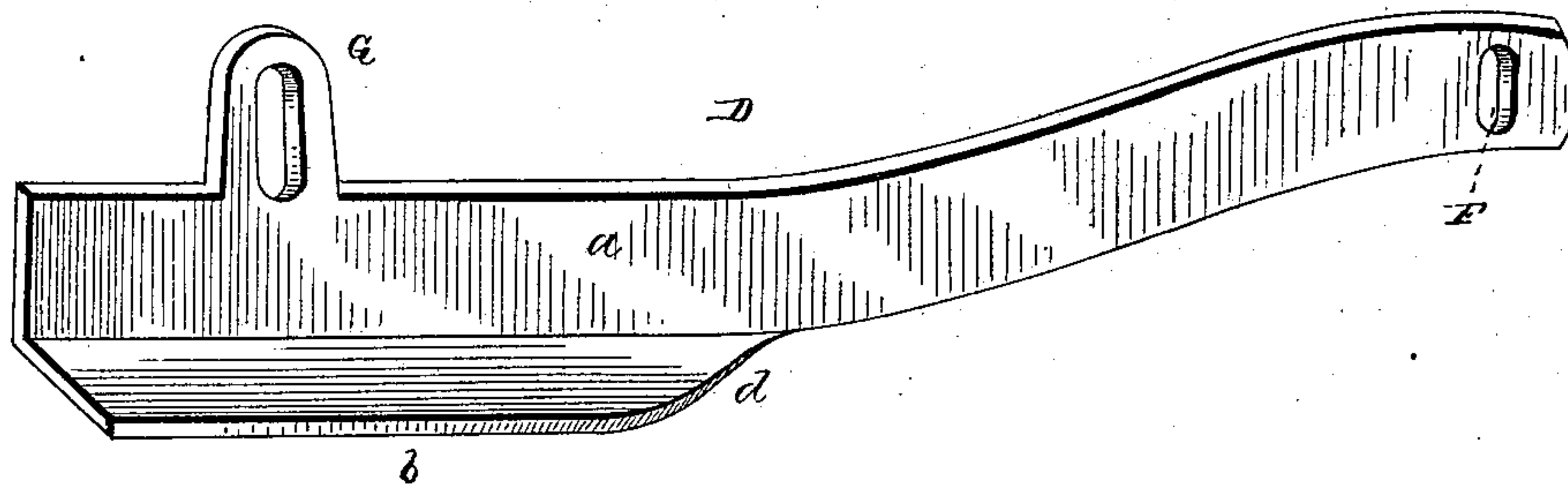


Fig. 2.



WITNESSES

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PLOW.

SPECIFICATION forming part of Letters Patent No. 332,862, dated December 22, 1885.

Application filed September 7, 1885. Serial No. 176,349. (No model.)

To all whom it may concern:

Be it known that I, INGVAR ANDERSON, a citizen of the United States, residing at Perham, in the county of Otter Tail, State of Minnesota, have invented a certain new and useful Improvement in Plows, the name of which is the "Landside Heel-Gage," of which the following is a specification.

This invention has relation to improvements in plow attachments; and it consists in the construction, novel arrangement, and adaptation of devices, as will be presently explained, and particularly pointed out in the appended claims.

In the accompanying drawings, to which similar letters of reference are made, Figure 1 is a representation of a side elevation of a plow having my improvements attached, and Fig. 2 is a perspective view of my improved device removed from the plow.

Referring by letter to the said drawings, A indicates a plow, which may be of any ordinary or approved form. B is the mold-board, and C the landside. The landside is provided near front and rear with two transverse bolt-apertures, as shown, which are designed to receive the securing-bolts for attaching the wear-iron or shoe D. This wear-iron or shoe D is of a peculiar construction, being composed of a bar, *a*, of suitable metal, preferably steel, which is straight for the greater portion of its length, and curved upwardly and forwardly at its forward portion, so as to raise the said curved portion above the lower edge of the landside and adapt the shoe to be adjusted, as will be presently explained. From the inner side, and at right angles to the straight portion of this bar *a*, is a flange, *b*, which is designed to engage the under side of the landside, as more fully shown in Fig. 1. The forward end of this flange *b* is cut outwardly and rearwardly, as at *d*, and beveled on its under side, to allow a free and easy running of the plow. The bar *a* of this shoe D is provided at its forward elevated end with a vertical elongated slot, F, and near its opposite end with a vertical slotted lug, G, to receive the bolts for securing the same to the landside of a plow.

In attaching my improved device to a new plow it is only necessary to provide two transverse bolt-apertures in its landside—one in rear and one near its front portion. I then place the shoe with its horizontal flange squarely under the said landside, causing the slots in the bar *a* to coincide with those in the plow and the said shoe fully to the heel of the landside. I then apply securing-nuts or other suitable fastening devices to the bolts, when the plow is ready for operation, and the shoe will take up wear which would otherwise come on the heel of the landside and shortly impair its usefulness.

In attaching the shoe to old plows, for which my invention is peculiarly adapted, I first apply the forward bolt to the curved portion of the bar in the slot thereof, so as to bring the curved portion of the flange to engage the under side of the landside or bar C. I then adjust the rear portion of the shoe so as to have the under surface of its flange *b* coincide in a longitudinal plane with the forward under side of the landside of the plow before applying the rear securing-bolt.

It will be seen that by having the flange *b* beveled on its under side and the forward portion of the bar *a* curved upwardly but little or no obstruction will be offered to the running of the plow, and I attach importance to such features of construction and to the fact that the shoe may be applied to all plows, no matter how old they may be, and have their landsides present an under surface equal to a new plow.

Having described this invention, what I claim is—

1. The combination, with a plow having its landside provided with a plurality of bolt-apertures, of a shoe consisting of a horizontal bar of steel having its forward portion curved upwardly and provided with a transverse slot, its rear straight portion provided with a vertical slotted lug, and an inward rectangular flange on its lower edge, the said flange being provided with an under bevel at its forward edge and adapted to engage the under side of the landside, substantially as specified.

2. As an improved article of manufacture,
a plow-shoe consisting of a steel bar having
a forward upwardly-curved portion and a
rear straight portion provided with slots for
5 attaching bolts, and an inward horizontal
flange on the lower edge of its straight por-
tion having its forward edge cut outwardly

and rearwardly and beveled on its under side,
substantially as specified.

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Witnesses:

KNUTE JOHNSON,
JOHN C. DENISON.