(No Model.)

O. & E. SWEDBERG.

PLOW.

No. 455,834. Patented July 14, 1891.

Fig. 1.

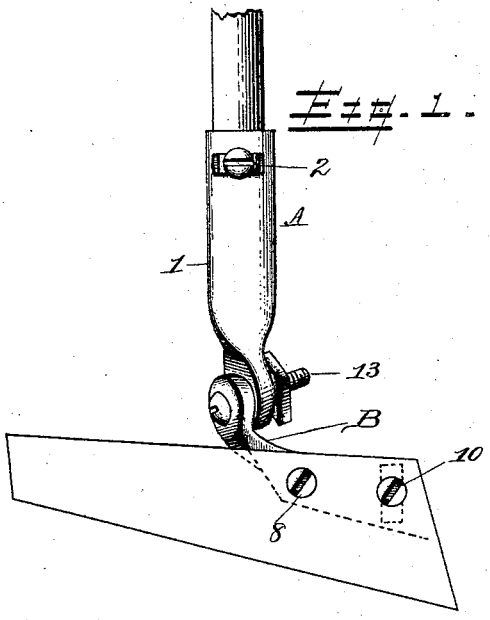


Fig. 2.

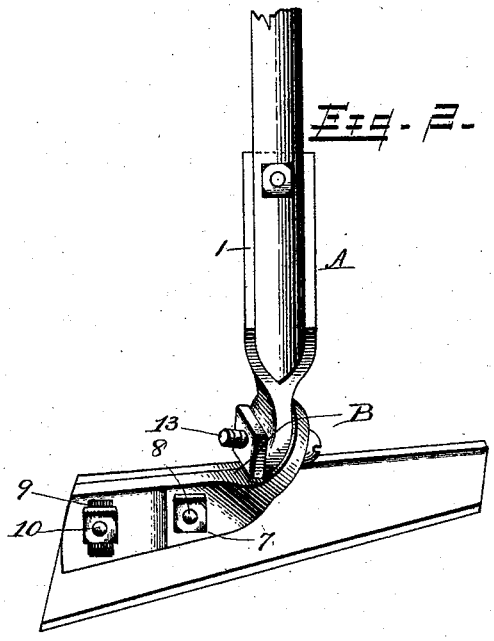


Fig. 3.

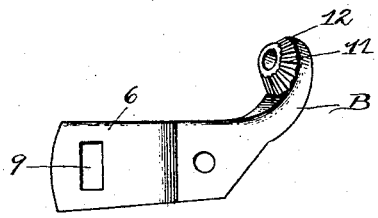
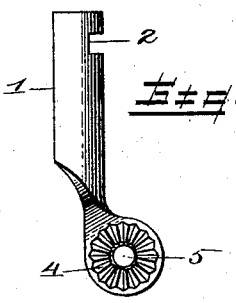


Fig. 4.



WITNESSES:

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PLOW.

SPECIFICATION forming part of Letters Patent No. 455,834, dated July 14, 1891.

Application filed April 14, 1891. Serial No. 388,870. (No model.)

To all whom it may concern:

Be it known that we, OLIVER SWEDBERG and EDWARD SWEDBERG, citizens of the United States of America, residing at Rantoul, in the county of Champaign and State of Illinois, have jointly invented certain new and useful Improvements in Plows, of which the following is a specification.

Our invention has relation to plows, and the object is to provide an improved means for adjusting and securing the scraper-blade, or what is usually termed a "gopher" by the trade, to the standard of the corn-plow.

Our invention consists in the novel construction of parts and their combination, as will be hereinafter fully specified, and particularly pointed out in the claim.

We have fully and clearly illustrated our invention in the accompanying drawings, wherein—

Figure 1 is a front view of the device. Fig. 2 is a view taken from the inner side. Figs. 3 and 4 are detail views of the device removed from the scraper.

A designates a bearing-plate having its upper or bearing portion 1 shaped to fit the standard to which it is to be fastened. In the part 1 is a transverse slot 2, through which the usual fastening-bolt is passed by which it is secured in place. The requisite adjustment on the standard may be made by shifting the plate on the bolt to the desired position and screwing up the bolt-nut. The lower end of this part 1 is formed with a concave or countersunk face 3, having radiating serrations or ratchets 4, and provided with a bolt-hole 5 to take the fastening-bolt, which holds the part to adjustable bracket on the scraper-blade.

B designates the adjustable bracket by which the scraper can be moved and secured to any desired position in relation to inclination outward or inward and to depth of the work to be done by the blade. This bracket B consists of a plate portion 6, having at the rear end a bolt-hole 7, which takes a fastening-bolt 8, which is projected through the scraper *a*, as shown. At the end of the bracket is a vertically-arranged slot 9, in which is a bolt 10, projected through the scraper, and on which the slot can be adjusted to suit the work to be done. The inner end of the bracket is projected upward and formed with a conical projection 12, having radial serrations to engage those of the concave seat in the lower end of the bearing-plate A, and provided with a bolt-hole registering with the bolt-hole 5, the fastening-bolt 13 being projected through the parts to hold them fast in any desired relation.

It will be readily perceived from the foregoing description, in connection with the drawings, that the transverse inclination of the scraper may be made by loosening the bolt 13 and moving the blade to the position desired and then clamping the conical portions together, the ratchets or serrations interlocking and holding the parts against displacement. The depth of the travel of the scraper is accomplished as readily by loosening up the rear fastening-bolt and then the forward bolt and moving the scraper up or down, as the desire is to have a shallow or deep cut, and then clamping the bolts. It will thus be perceived that we have provided a very simple, effective, and reliable means for consummating the several adjustments necessary in an attachment or device of this character.

Having thus described our invention as required by the statute, what we claim is—

In a means for adjustably connecting the scraper-blade to a standard, the combination of the part A, having a serrated countersunk lower end provided with a bolt-hole, the bracket B, consisting of a plate formed with a slot 9, an upwardly-projecting inner end formed with a conical part 12 to engage the countersink of the part A, the scraper *a*, and fastening-bolts through the bracket-plate and the scraper, substantially as described.

In witness whereof we have hereto set our hands in the presence of two attesting witnesses.

OLIVER SWEDBERG.
EDWARD SWEDBERG.

Attest:
L. BOOTH,
M. V. CUPPERNELL.