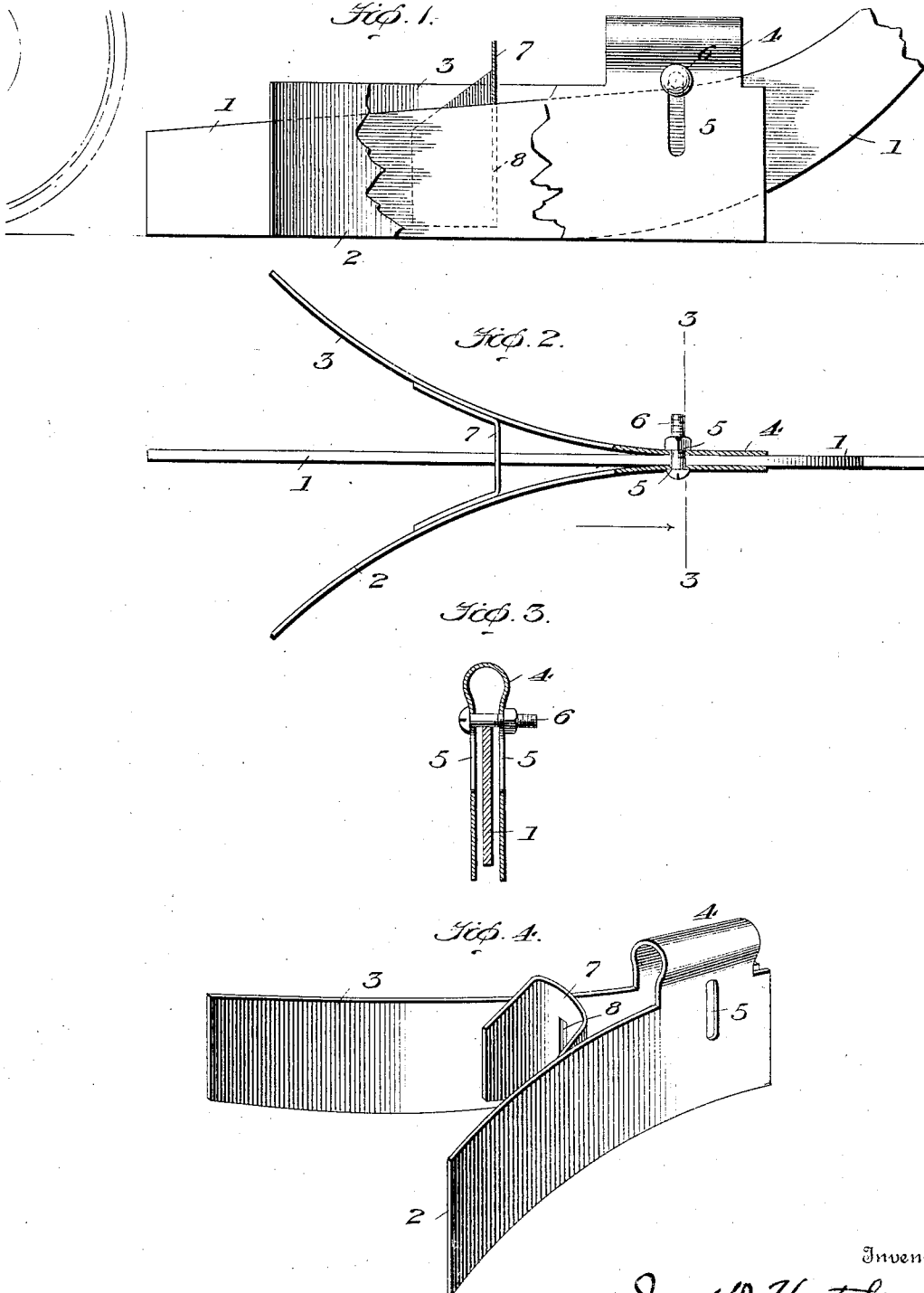


J. Z. HARTZLER.
FENDER FOR CORN PLANTERS.
APPLICATION FILED JUNE 2, 1909.

932,275.

Patented Aug. 24, 1909.



Witnesses
[Signature]
M. L. Newcomb

Inventor
Joseph Hartzler
By *Geo. H. Smith*
Attorney

UNITED STATES PATENT OFFICE.

JOSEPH Z. HARTZLER, OF EAST LYNNE, MISSOURI.

FENDER FOR CORN-PLANTERS.

932,275.

Specification of Letters Patent.

Patented Aug. 24, 1909.

Application filed June 2, 1909. Serial No. 499,624.

To all whom it may concern:

Be it known that I, JOSEPH Z. HARTZLER, a citizen of the United States, residing at East Lynne, county of Cass, and State of Missouri, have invented certain new and useful Improvements in Fenders for Corn-Planters, of which the following is a specification.

This invention relates to fenders for corn planters.

It has heretofore been proposed to attach to the shoe or runner of a corn planter, a fender to prevent the clods of dirt opened by the shoe from falling back into the furrow and under the covering wheel.

The present invention relates to the foregoing class of fenders and has for its object the provision of a fender which may be inexpensively made out of sheet metal, preferably steel, will require no attachment on the shoe or drilling of bolt holes therein for its securement to the shoe, and which may be readily and easily applied to or removed from the shoe in the desired position and will be adapted to direct the clods of dirt laterally and prevent them from falling back into the furrow, as well as constructed for ready vertical adjustment to different heights, thus regulating the depth the furrow is opened by the shoe and insuring an even and regular depth of dropping of the corn so that the sprouts will come up at substantially the same height.

The invention is carried out by the provision of a fender of novel construction as will appear more fully hereinafter.

In the accompanying drawings: Figure 1 is an enlarged side view showing the invention in use, certain parts being broken away; Fig. 2, a top plan view, certain parts being in section; Fig. 3, a detail cross section on line 3—3 of Fig. 2; and Fig. 4, a detail perspective of the invention, with the securing bolt removed.

The ordinary shoe or runner of a corn planter is shown at 1, the invention being shown as applied thereto. The fender has diverging wings 2 and 3 of sheet metal, preferably steel of such thickness as to afford the requisite resiliency and strength, formed from the same piece with a bridge or bow 4.

Aligned vertical slots 5 extend from the wings up into the bow or bridge, a bolt 6, having a suitable nut, passing through said slots. The rear parts of the wings are connected by a metal brace plate 7 having a slot 8 extending upwardly from the lower edge thereof.

In applying the fender, the slot 8 receives the upper edge of the shoe 1 and the forward part of the shoe lies between the forward ends of the wings, the bolt 6 resting upon the shoe and by its adjustability in the slots 5 affording means whereby the fender may be adjusted to different heights, according to the depth it is desired that the shoe penetrate the earth. The fender is secured by tightening the bolt 6, the forward ends of the wings thereupon clasp the sides of the shoe with the requisite frictional contact. On loosening the bolt the fender may be adjusted higher or lower or to any desired position on the shoe or the entire fender removed from the shoe.

Whereas earlier fenders have been positively secured by the bolts, set screws, or the like, the present fender is attached by the frictional contact of the wings and the engagement of the brace with the shoe so that it is unnecessary to drill holes in the shoe or to provide it with appliances of any kind for the holding of the device.

When in use, the fender deflects the clods turned up by the shoe and prevents them from falling into the furrow, besides regulating the depth to which the shoe will penetrate in the soil and thus the stand of corn is of the same height throughout the furrow.

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

1. A fender for the shoes of corn planters, consisting of horizontally diverging flexible wings disposed on edge vertically, and a device for drawing said wings together to frictionally bind them on the shoe, said device being adjustable vertically in relation to the fender whereby the height of positioning of the fender on the shoe may be regulated.

2. A fender for the shoes of corn planters, consisting of horizontally divergent wings disposed on edge vertically, means for drawing the foreparts of said wings together to

frictionally bind them on the shoe, and a brace bridging said wings and having means to engage the shoe of the planter.

3. A fender for the shoes of corn planters, 5 consisting of a single piece of resilient or flexible material composed of horizontally diverging wings and a connecting arch, said wings having slots, a tensioning device passing through said slots for binding the wings on

the shoe, and a brace connecting said wings 10 and adapted to engage the shoe of the planter.

In testimony whereof, I hereunto affix my signature in presence of two witnesses.

JOSEPH Z. HARTZLER.

Witnesses:

F. W. FOSTER,
S. SAMMON.