J. E. WILKINSON.

PLOWS.

No. 185,152. Patented Dec. 5, 1876.

Fig 1

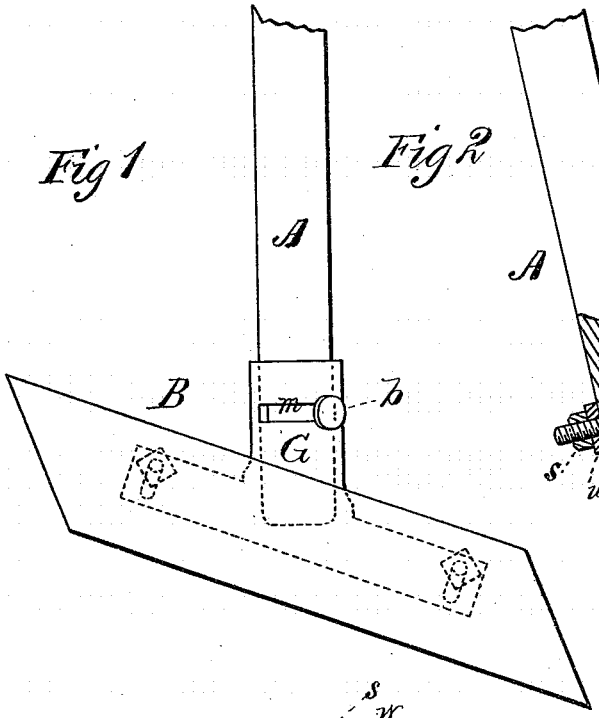


Fig 2

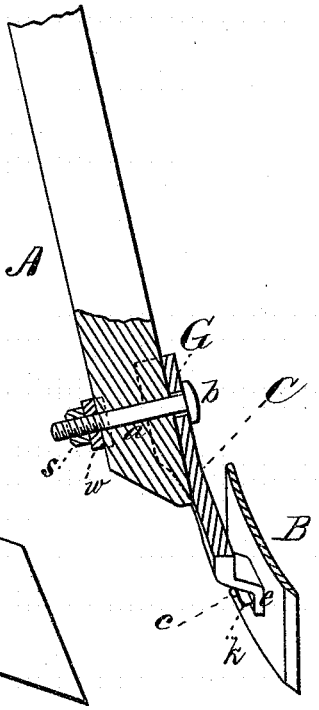


Fig 3

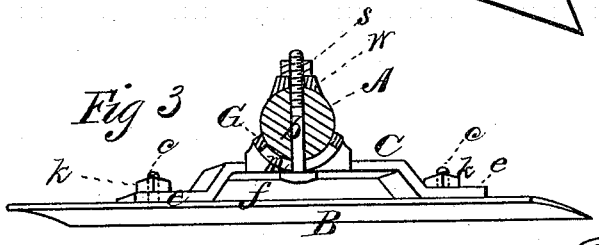
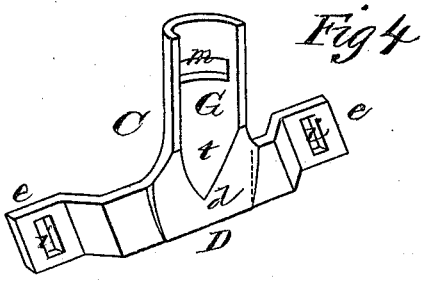


Fig 4



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES E. WILKINSON, OF LISBON, ILLINOIS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **185,152**, dated December 5, 1876; application filed September 16, 1876.

To all whom it may concern:

Be it known that I, JAMES E. WILKINSON, of Lisbon, in the county of Kendall and State of Illinois have invented a new and valuable Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of this invention applied. Fig. 2 is a vertical section of the same. Fig. 3 is a horizontal section; and Fig. 4 is a perspective view of the slant-plate detached.

This invention has relation to means for fastening the scraper-blade to the standard of a scraper or corn plow; and it consists in the construction and novel arrangement of an elongated slant-plate, having transversely-slotted arms extending forward at its ends for the attachment of the blade or scraper, and a cylindrically-concave bearing portion, extending upward from the central part of the slant or body-plate, and horizontally-slotted for the reception of the bolt, whereby the connection is secured to the rounded end of the standard.

The object of this invention is to provide a ready means for adjusting the shovel or blade to any desired position with relation to its transverse inclination or its angular relation to the line of draft.

In the accompanying drawings, the letter A designates the standard of a corn plow or scraper, which should be cylindrically-rounded at its lower end, and perforated from back to front, as shown at *a*, to receive the fastening-bolt *b*. B designates the shovel or scraper blade, which is of the usual elongated concave rhomboid form. It is provided with the usual threaded studs or bolts *c*. C represents the slant plate or connection, whereby the blade is attached to the standard. This consists of an elongated body-portion, D, somewhat inclined backward as well as laterally. Its ends *e* extend forward of the central portion *d*, and then turn outward to receive against their front faces the rear surface of the scraper-blade. Therefore this body portion is concave from end to end, standing well off from the rear surface of the blade except at the bearing ends *e*, so that the blade has the advantage of all its elasticity, and a passage, *f*, is provided between the blade and the slant-plate for the passage of such particles of soil as may be thrown upward over the upper edge of the shovel. The bearing ends *e* of the slant-plate are slotted upwardly and transversely to the length of the plate. Through these slots *i* pass the studs or bolts of the shovel, and these are secured by nuts *k* at the back of the bearing ends *e*. By means of these slots and bolts the transverse inclination of the shovel can be readily adjusted, the adjustment being secured by means of the nuts.

Upward from the central portion of the slant-plate extends a broad cylindrical bearing, G, whereof the central line should bisect or nearly bisect the lower edge of the slant-plate, as shown in dotted lines in the drawings. This bearing inclines somewhat backward to correspond with the rake of the standard A. It is convex in front and concave in rear from side to side, extending about one-third of the distance or more around the post in front. It is designed to be attached to the lower or circular portion of the standard, and is provided with a horizontal slot, *m*, extending from side to side, through which passes the headed bolt *b*, extending through the aperture *a* in the post, and being secured in rear by means of a nut, *s*. If the lower end of the post is made entirely cylindrical a concave washer, *w*, may be used beneath the nut, or a flat washer may be let into the rear face of the post. The slot *m* is placed near the middle of the face-bearing G, and it enables the point of the shovel to be turned in or out, according to requirements in hilling the corn.

In the construction of the slant-plate it is advisable to make the junction of the lower end of the face-plate G with the body portion D as strong as possible, and therefore a beveled re-enforcement, *t*, is usually formed back of the central portion of said body plate, extending upward to the lower end of said face-plate.

What I claim as my invention, and desire to be secured by Letters Patent, is—

A slant-plant for the shovels of corn plows or scrapers, consisting of an oblique elongated body-portion, D, having the advanced transversely-slotted end bearings *e*, and extending from its middle portion upward the horizontally-slotted cylindrical face-bearing G, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES E. WILKINSON.

Witnesses:

N. H. MOORE,

H. ESSEX.