

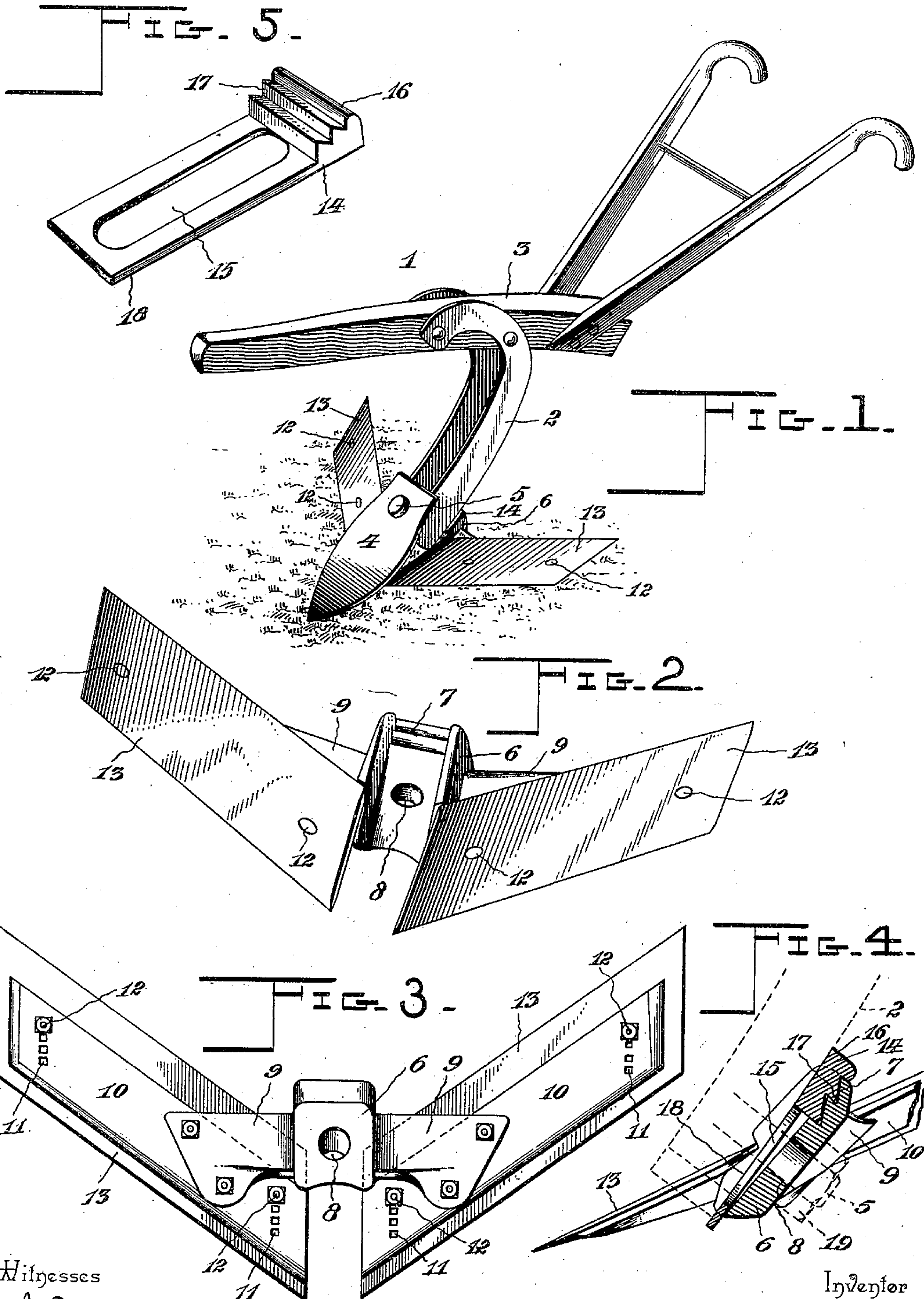
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Patented Jan. 16, 1900.

S. A. HUNT.
PLOW ATTACHMENT.

(Application filed Aug. 22, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

STEPHEN A. HUNT, OF CEDARTOWN, GEORGIA.

PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 641,595, dated January 16, 1900.

Application filed August 22, 1899. Serial No. 728,089. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN A. HUNT, a citizen of the United States, residing at Cedar-town, in the county of Polk and State of Georgia, have invented a new and useful Plow Attachment, of which the following is a specification.

My present invention relates to plow attachments of the class known as "heel-scrapers." This attachment is designed to be mounted upon the rear side of the foot or standard of the plow which it follows, producing a "sweep," by which is meant the leveling of the edge of the furrow and the loosening of the ground for a considerable distance to each side thereof.

One object of the present invention is to provide a heel-scrapers which may be readily adjusted to cause it to assume various angular positions for the purpose of "skimming" or "digging," as required.

A further object is to so construct and mount the scrapers that they can be entirely consumed in the ordinary course of wear by a provision which makes it possible to feed them forward as their edges are reduced and to actually reverse them in order that both end edges may be thrown to the outside successively.

Referring to the drawings, Figure 1 is a perspective view of a plow provided with my attachment. Fig. 2 is a detached view of the attachment proper. Fig. 3 is a similar view, but looking from the opposite side. Fig. 4 is a sectional view through the attachment and its securing device, the standard and securing-bolt, together with its nut, being illustrated in dotted lines; and Fig. 5 is a detail view of what may be termed the "ratchet-plate."

Referring to the numerals of reference on the accompanying drawings, 1 indicates an ordinary plow provided, as usual, with a standard 2, which in this instance is formed from a pair of parallel plates depending and inclined forwardly from the beam 3.

The numeral 4 indicates the share, and 5 the bolt which fastens the share and connects it to the standard. These features are well known and appear to require no more detailed description.

I shall now proceed to a description of my

heel-scrapers, which, as premised, is mounted at the back of the standard upon a bolt 5.

My scraper comprises a metallic shank 6, 55 channeled on its front face and provided with a series of transverse notches 7 at the bottom of the channel, near the top of the shank, and with a central opening 8, through which the bolt 5 is designed to project in use. From 60 the opposite sides of the shank 6 extend shank-wings 9, the front faces of which are angularly related with respect to the face of the shank in order that in practice they may assume a more acute angle with respect to the 65 ground than is assumed by the face of the shank, which practically conforms to the plane of the rear side of the standard. Bolted or otherwise rigidly secured to the outer ends of these wings 9 are a pair of divergent shank- 70 plates 10, provided, respectively, with two series of bolt-holes 11 for the reception of adjusting-bolts 12, which pass therethrough and serve to adjustably retain the scraper-blades 13 and permit of a parallel adjustment there- 75 of in a direction front and rear of the device. Also, the blades have a vertical adjustment due to the inclination of the shank-plates, and the original distance and relation between the blades are maintained by reason of the fact 80 that the series of perforations 11 in the shank-plates extend in parallel relation and in a direction front and rear of the device.

Inasmuch as one of the primary objects of my invention is to eliminate the expense at- 85 tached to the constant sharpening of the blades, I have devised the present construction, which comprises blades of such exceeding thinness as is consistent with the work to be performed, and the use of such blades is 90 made possible by reason of the fact that they are backed and braced by the shank-plates 10. As the lower edges of the blades are worn back to the shank-plates they may be readjusted by utilizing another of the series 95 of bolt-holes 11 for the bolts 12, and when the front corners of these plates are worn dull the entire plate may be reversed in an obvious manner.

The attachment proper having now been 100 described, it remains to disclose the means whereby the angular adjustment of the blades to effect skimming or digging is effected.

14 indicates what may be termed a "ratchet-

plate." This plate is comparatively thin and is of a width sufficient to permit its location within the channel of the shank. It is provided with a longitudinal slot 15, through 5 which the bolt 5 is designed to pass, and at its upper end is formed with an enlargement 16, having transverse notches 17 corresponding to the notches 7 and disposed in an angular series with respect to the face of the plate. 10 In practice the rear surface 18 of the plate 14 is placed against the rear of the foot or standard of the plow, and the bolt 5 is passed therethrough. The shank 6 of the attachment is now presented to the face of the 15 ratchet-plate, and its notches 7 are engaged by the transverse corrugations intermediate of the notches 17. The nut 19 is now secured upon the end of the bolt 5, and the shank and ratchet-plate are clamped against the face of 20 the standard. It will now be obvious that by raising or lowering the ratchet-plate 14 the upper end of the shank will be allowed to approach or will be forced away from the standard and the angular adjustment of the 25 scraper will thereby be effected.

I do not desire to limit myself to the struc-

tural details defined, but reserve the right to change, modify, and vary them within the scope of the protection prayed.

What I claim is—

1. The combination with a plow-standard and an adjustable ratchet-plate having an inclined notched face, of a scraper provided with a correlatively-notched shank and means for binding the shank against the face of the 35 ratchet-plate.

2. The combination with a standard and bolt, of a longitudinally-slotted ratchet-plate provided with an inclined, notched enlargement, a scraper provided with an apertured 40 shank having a longitudinal channel and transverse notches, and a nut screwed upon the bolt and abutting against the rear face of the shank.

In testimony that I claim the foregoing as 45 my own I have hereto affixed my signature in the presence of two witnesses.

STEPHEN A. HUNT.

Witnesses:

FRANK J. WEST,
A. D. HOGG.