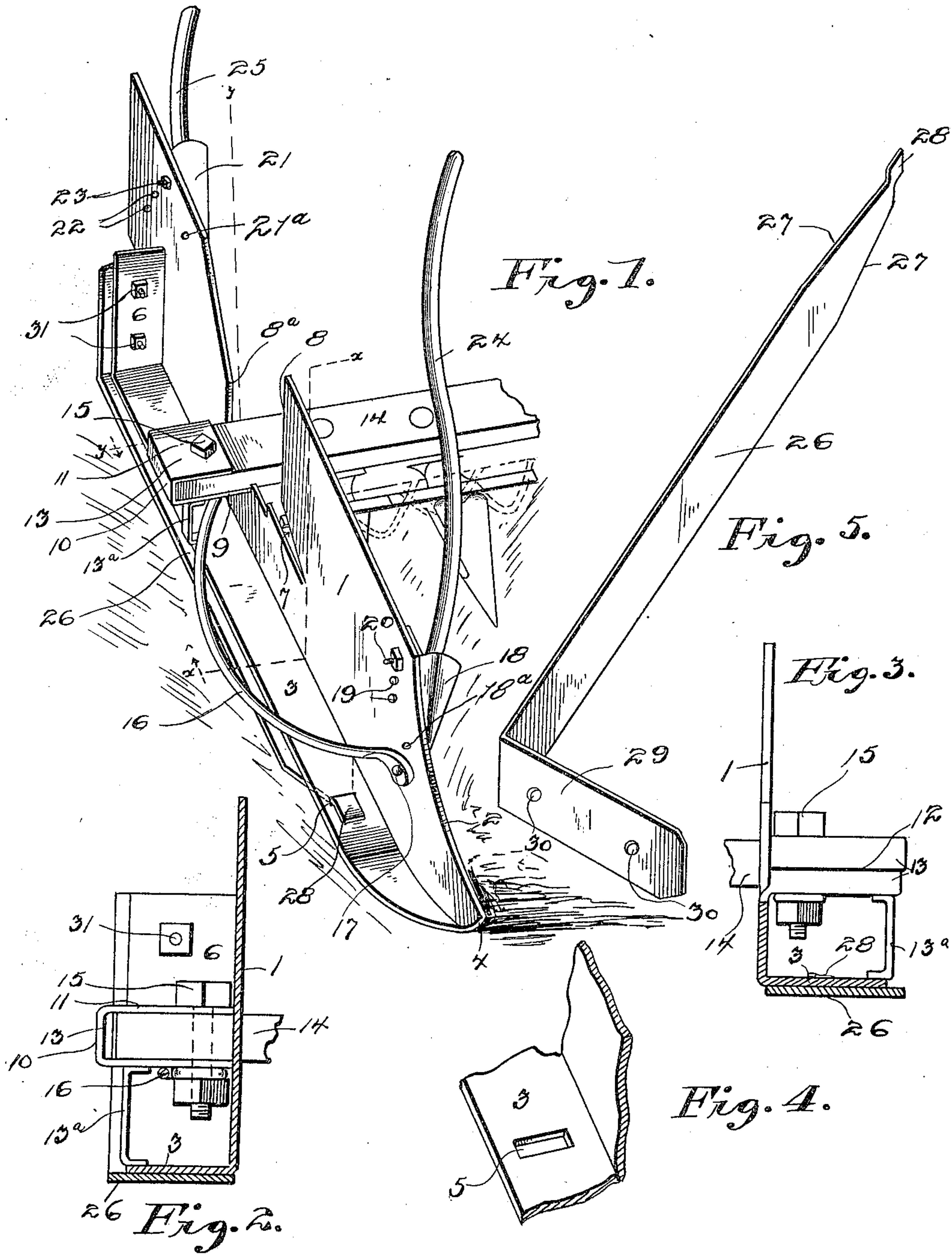


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SWATHER OR SICKLE BAR HEAD.
APPLICATION FILED MAY 4, 1909.

999,452.

Patented Aug. 1, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

ALLEN HONEY, OF CONCONULLY, WASHINGTON.

SWATHER OR SICKLE-BAR HEAD.

999,452.

Specification of Letters Patent.

Patented Aug. 1, 1911.

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To all whom it may concern:

Be it known that I, ALLEN HONEY, a citizen of the United States, residing at Conconully, in the county of Okanogan and State of Washington, have invented certain new and useful Improvements in Swather or Sickle-Bar Heads, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in swathers for mowers, and has for its object to provide a device which will effectually separate the grain, grass, or the like, and will also prevent the same from becoming entangled in the swather or the mower.

Other objects and advantages of my invention will be set forth in the following specification.

In the accompanying drawing: Figure 1 is a perspective view of my swather with its various attachments. Fig. 2 is a cross sectional view on the line $x-x$ of Fig. 1 looking in the direction of arrow No. 1. Fig. 3 is a cross sectional view on the line $y-y$ of Fig. 1 looking in the direction of arrow No. 2. Fig. 4 is a fragmentary section, in perspective, of a portion of the swath board to which the shoe is connected. Fig. 5 is a perspective view of the shoe.

Referring to the drawing, which illustrates the preferred embodiment of my invention, 1 designates the swath-board, which is preferably constructed of a single piece of steel of suitable size and thickness. The forward upper end of the swath-board is curved downwardly, as at 2, while the lower edge or bottom thereof is turned outwardly at right-angles to form a runner 3. The runner is preferably curved upwardly and tapered off at its forward end to where it converges with the downwardly curved portion 2, to form a point 4 to facilitate the entrance and travel of the swather through the standing grain or other growth. The runner, near its forward end, is provided with a slot 5 for a purpose to be hereinafter explained. The rear end of the runner is turned up vertically, as at 6, and suitably secured to the side of the swath-board.

Located centrally in the swath-board 1 is a V-shaped slot 7 which permits one end of the sickle-bar (not shown) to work there-through. Contiguous to the end of the V-shaped slot the swath-board is cut down vertically, as at 8, and, a little farther back, it is cut down diagonally and then verti-

cally, as at 8^a; the resulting strip of metal is then trimmed to the vertical on the side of the angular cut. The oblong strip of metal is then first bent at right-angles to form a horizontal side 9, then upwardly to form a vertical end 10, and then again at right-angles to form a horizontal side 11 parallel with side 9, the rear ends of the parallel sides 9 and 11 being bent up and down at one end to form an end 12. The result of this bending is a box or receptacle 13 closed on all but two sides. The end of the sickle or finger bar 14 is secured in the box 13 by means of a bolt 15. The box is suitably supported by a brace 13^a, the lower end of which is secured to the runner, while the upper end thereof is connected to the underside of the box.

One end of a guard and brace 16 is turned around the shank of the bolt 15 and secured thereon by the nut. The guard 16 is curved or bowed outwardly and extends laterally from the swath board 1 beyond the runner 3 and its shoe 26, and by suitable fastening means 17 is secured adjacent the forward end of the swath board. The guard 16 throughout its length lies substantially horizontal with relation to the runner and its shoe and serves to effectually push the standing grain, etc. out of the way in order that the swather or parts of the mower may not become entangled therein. By reason of the guard 16 being secured at 17 to the swath board, nothing can work between it and the front of the guard, and also the rear end of the guard, where it is secured to the shank of the bolt 15, is protected from grain, etc., becoming entangled therein by the brace 13^a.

Pivoted at 18^a at the forward end, to the inner side of the swath-board, is a pocket or socket 18, which is adjustable vertically by means of perforations 19 and a bolt 20 connected to the pocket. At the rear end, and also on the inner side, of the swath-board at 21^a is pivotally mounted a second pocket or socket 21, which is adjustable vertically by means of perforations 22 and a bolt 23, in a similar manner to the pocket 18. Adapted to be supported in these pockets or sockets 18 and 21 are swath-sticks 24 and 25, the inclination of which may be adjusted as desired by adjusting the pockets by means of the perforations and bolts. Preferably I employ the longer swath-stick 24 in the forward pocket 18.

Adapted to be detachably secured to the underside of the runner is a shoe 26, which is formed preferably of a single piece of steel. The forward end of the shoe is provided with inwardly-slanting sides 27, which terminate in an oblong extension 28. The extension 28 is adapted to be passed into the slot 5 until the slanting edges of the shoe engage the sides of the slot. The other end of the shoe is bent up vertically, as at 29, and adapted to fit up close against the turned-up portion 6 of the runner. The vertical portion 29 of the shoe is provided with perforations 30, which are adapted to register with perforations formed in the turned-up portion 6 of the runner, so that the two can be clamped securely together by means of bolts 31. As shown, the shoe is preferably of a width greater than that of the runner, in order that a broad bearing may be secured, and further, that the runner may be strengthened and not subjected to wear, or injury, from obstructions. Ordinarily, as the shoe will be the only portion of the swather worn out or injured, it can be thrown away and a new one substituted therefor at but a small cost.

What I claim is:

A swather comprising a sheet metal swather board having a vertical portion and

a portion extending at right angles thereto and forming a runner, said runner portion being provided with a transverse slot and having its rear end extending upwardly along the side of the vertical portion and in engagement therewith; in combination with a shoe comprising a strip of metal having its forward end reduced to form a tongue, said tongue being inserted from beneath through the slot in the runner, the portion of said tongue extending through the slot lying flat on top of said runner whereby the rear end of said shoe must be moved downward to permit the withdrawal of said tongue, the rear portion of said shoe being bent upwardly and lying against the upwardly extending portion of the runner, and bolts passing through said upwardly extending portions to secure the shoe and runner together at the rear and to prevent the downward movement of the rear end of said shoe and the withdrawal of the tongue from the slot.

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

ALLEN HONEY.

Witnesses:

PETER BELL,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."