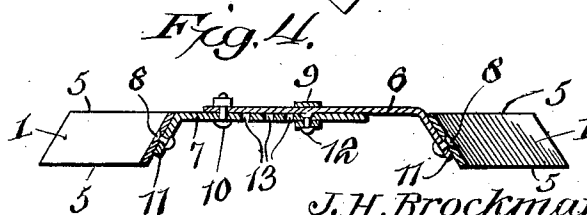
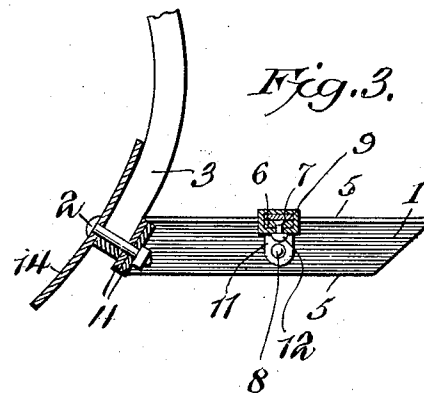
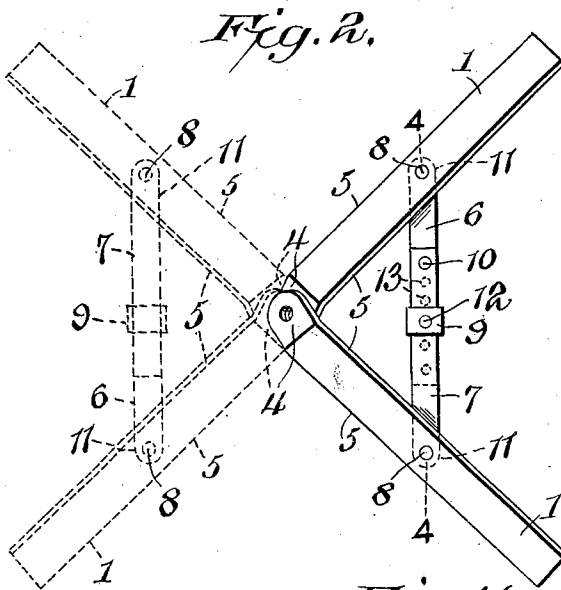
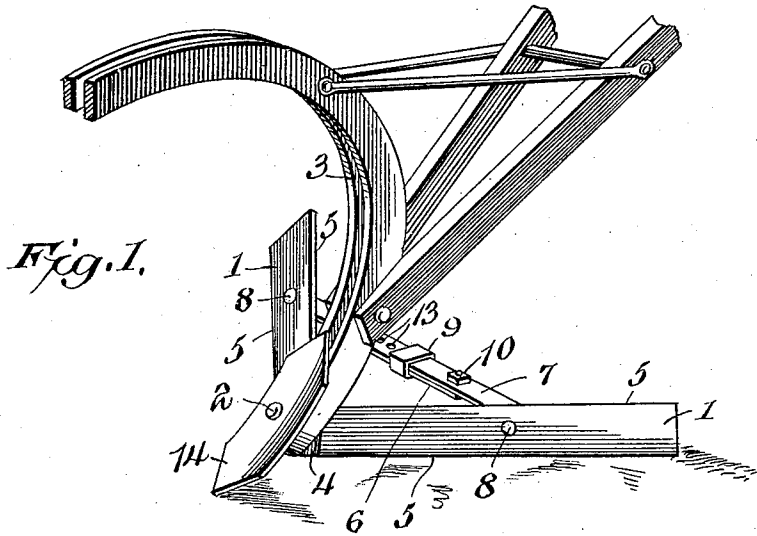


J. H. BROCKMAN.
 REVERSIBLE AND ADJUSTABLE HEEL SWEEP.
 APPLICATION FILED MAY 26, 1909.

938,963.

Patented Nov. 2, 1909.



Witnesses
Howard D. Orr.
H. T. Riley

J. H. Brockman, Inventor,
 By *E. J. Siggers.* Attorney

UNITED STATES PATENT OFFICE.

JOHN H. BROCKMAN, OF MASON, TEXAS, ASSIGNOR OF ONE-HALF TO CHARLES T. BROCKMAN, OF MASON, TEXAS.

REVERSIBLE AND ADJUSTABLE HEEL-SWEEP.

938,963.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed May 26, 1909. Serial No. 498,409.

To all whom it may concern:

Be it known that I, JOHN H. BROCKMAN, a citizen of the United States, residing at Mason, in the county of Mason and State of Texas, have invented a new and useful Reversible and Adjustable Heel-Sweep, of which the following is a specification.

The invention relates to improvements in heel sweeps.

10 The object of the present invention is to improve the construction of heel sweeps, and to provide a simple and economical heel sweep, equipped with opposite blades adapted to be arranged at different angles to cut
15 wide or narrow for cultivating different kinds of crops, and provided at each side with a cutting edge, and capable of adjustment to arrange either side edge at the outside for cutting.

20 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims
25 hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or
30 sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a heel sweep, constructed in accordance with this invention and shown
35 applied to a plow. Fig. 2 is a plan view of the heel sweep, showing one position of the blades in full lines and illustrating in dotted lines the manner of reversing the blades. Fig. 3 is a vertical sectional view, illustrating the manner of securing the heel sweep
40 to a plow. Fig. 4 is a transverse sectional view on the line 4—4 of Fig. 2.

Like numerals of reference designate corresponding parts in all the figures of the
45 drawing.

1—1 designate angularly related blades, pivotally connected at their front ends by means of a heel bolt 2, which also serves as the means for securing the heel sweep
50 to a plow stock or standard 3. The blades 1—1, which have their front ends 4 bent at a slight angle, are provided at each side edge with a longitudinal cutting edge 5, and are adapted to be reversed to present
55 either of the cutting edges at the outside.

By this construction and operation, the life of the blades of the heel sweep is materially increased, as the blades may be reversed until they are worn too thin for use.

The blades are connected by adjustable 60 bracing bars 6 and 7, pivoted at their outer ends by rivets 8 to the inner or rear faces of the blades and adjustably and detachably connected at their inner ends by a sleeve 9 and a bolt 10. The pivots, which are preferably arranged centrally with relation to the side edges of the blades to permit an equal amount of wear at each side, permit the bracing bars to be swung around so as to extend from either side of the blades. 70 When the blades are entirely worn out, the bracing bars may be removed and applied to a new set of blades. The rivets have their outer heads counter-sunk in the outer faces of the blades so as to cause the latter to present smooth exterior faces, and the outer ends 11 of the bracing bars 6 and 7 are bent at an angle, as clearly shown in Fig. 4 of the drawing. 75

The inner body portions of the bracing 80 bars 6 and 7 are arranged horizontally, and the sleeve is secured by a rivet 12 to the bracing bar 7, and it detachably receives the bracing bar 6, which, when the bolt 10 is removed, is adapted to be withdrawn from the sleeve to permit the blades of the heel sweep to be reversed. The bracing bar 7 is provided with a plurality of perforations 13 for the reception of the bolt 10 to enable the blades to be arranged at different angles to cause the heel sweep to cut either wide or narrow to adapt it to the character of the crop to be cultivated. This construction will obviate the necessity of employing a number of heel sweeps of different sizes. 85 90 95

The heel bolt 2 is adapted to pass through the opening of the standard 3, and it is adapted to pierce a blade 14, which may be of any preferred construction.

Having thus fully described my invention, 100 what I claim as new and desire to secure by Letters Patent, is:—

1. A heel sweep including a pair of angularly related plates provided with upper and lower longitudinal cutting edges and pivotally adjustable to vary their angle and to arrange them for cutting either wide or narrow, said blades being also reversible through such pivotal movement to present either cutting edge at the bottom. 110

2. A heel sweep including a pair of angularly related blades provided with upper and lower longitudinal cutting edges and pivotally adjustable to arrange them at different angles and reversible through such pivotal adjustment to arrange either cutting edge at the bottom, and bracing bars extending across the space between and connecting the blades and having overlapped inner portions adjustably and detachably secured together.

3. A heel sweep including angularly related blades having their front terminals bent at an angle and fitted together, said blades being pivotally adjustable to arrange them at different angles and reversible through such pivotal movement to arrange either cutting edge at the bottom, transversely disposed bracing bars provided with angularly bent outer ends pivoted to the blades, the inner ends of the bars being overlapped, and means for adjustably and detachably securing the overlapped ends of the bars together.

4. A heel sweep including angularly related blades having their front terminals bent at an angle and fitted together, said blades being pivotally adjustable to arrange them at different angles and reversible through such pivotal movement to arrange

either cutting edge at the bottom, transversely disposed bracing bars provided with angularly bent outer ends pivoted to the blades, said bracing bars having inner overlapped portions, a sleeve embracing the overlapped portions of the bars and secured to one of the same and detachably receiving the other bar, and means for securing the bracing bars in their adjustment.

5. A heel sweep including angularly related blades having their front terminals bent at an angle and fitted together, said blades being pivotally adjustable to arrange them at different angles and reversible through such pivotal movement to arrange either cutting edge at the bottom, bracing bars pivotally connected at their outer ends to the blades and having inner overlapped portions, one of the bracing bars being provided with a plurality of perforations, a bolt piercing the other bar and adjustable to be arranged in the said perforations, and a sleeve embracing the bars.

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

JOHN H. BROCKMAN.

Witnesses:

DEE GIBBS,

H. C. DURST.