

N. SWICKARD.
SULKY PLOW.

No. 263,669.

Patented Aug. 29, 1882.

Fig. 1.

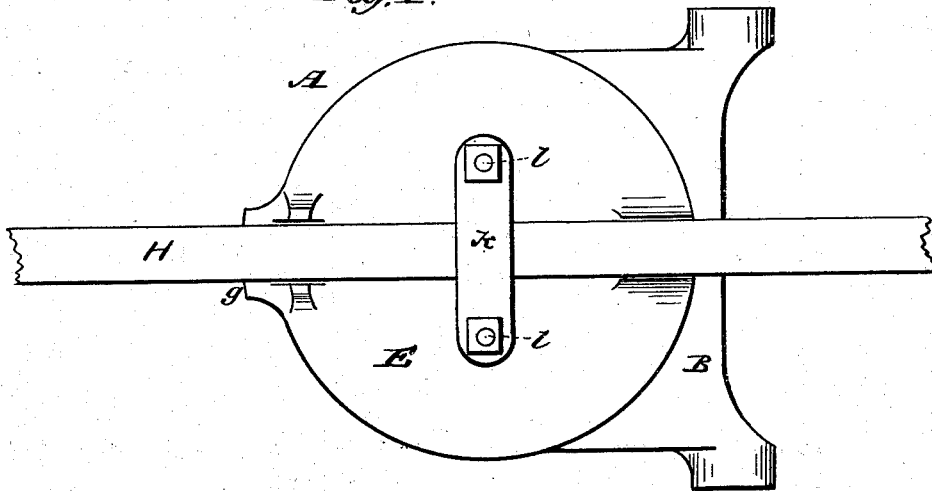


Fig. 2.

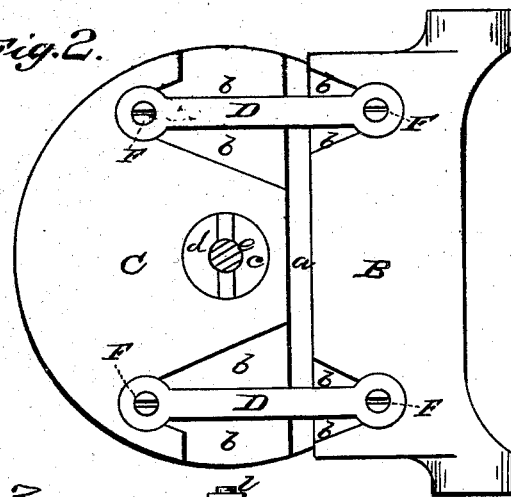
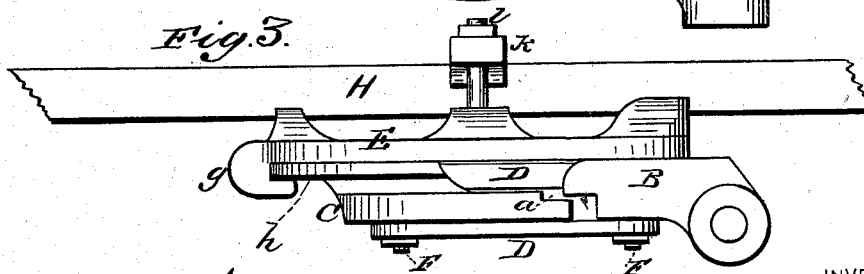


Fig. 3.



WITNESSES.

Emory H. Bates
Philip C. Masi.

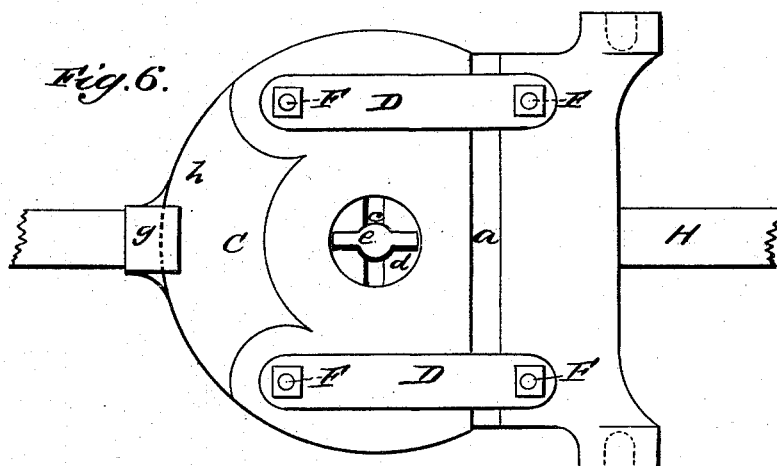
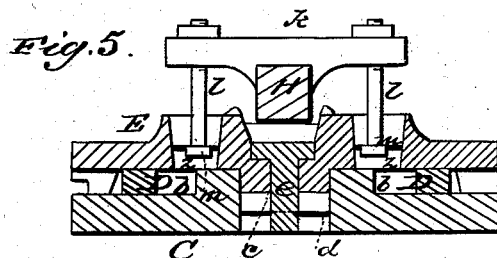
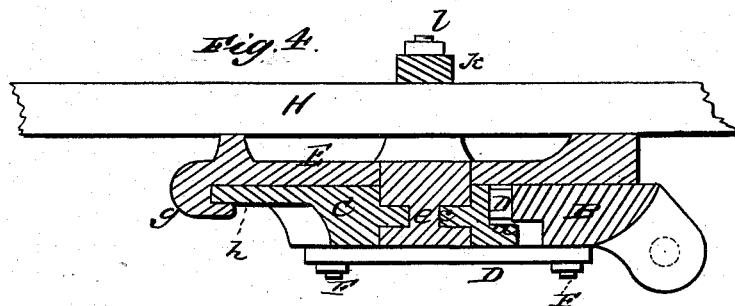
INVENTOR

Noah Swickard,
by Anderson & Smith
his ATTORNEYS

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UNITED STATES PATENT OFFICE.

NOAH SWICKARD, OF CLARINDA, ASSIGNOR OF ONE-HALF TO HENRY F. SIMMONS, OF OSCEOLA, IOWA.

SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 263,669, dated August 29, 1882.

Application filed May 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, NOAH SWICKARD, a citizen of the United States, resident of Clarinda, in the county of Page and State of Iowa, have
5 invented a new and valuable Improvement in Sulky-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
10 to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view. Fig. 2 is a top view having the
15 upper plate removed. Fig. 3 is a side view. Fig. 4 is a vertical sectional view. Fig. 5 is a cross-section, and Fig. 6 is a bottom view.

This invention has relation to coupling devices for connecting the beams of plows and
20 cultivators to the draft-frames; and it consists in the construction and novel arrangement of a sectional yoke-plate, the laterally-moving center connected to the front part of the yoke, the double bearing-plates to which the beam is
25 connected, and the parallel-moving link bars or connections pivoted to the yoke and center plates, all as hereinafter set forth.

The object of this invention is to provide a simple means for obviating the lateral strain
30 on the wheels of the draft-frame, and to keep the beam direct in its movement, and to control the plow or shovel in such a manner as to prevent a rocking movement thereof.

In the accompanying drawings, the letter A
35 designates the yoke, which consists of two sections or plates, B and C, connected by parallel-moving link bars or connections D, and supporting the broad center plate, E, carrying the beam, and pivoted to the rear section or
40 plate, C, of the yoke. The front yoke-plate, B, is connected in any ordinary manner to the axle or other bar of the draft-frame. Its rear edge is straight, and is provided with a bearing, a, for the rear section or plate, C, the front
45 edge of which engages said bearings. Usually these plates are rabbeted, so that the rear edge of the front plate will overlap the front edge of the rear plate. These plates are connected

above and below by link bars or connections D, which are arranged on each side of the center, and are connected to said plates by pivot-bolts F. Recesses b are provided in the upper surfaces of these plates to receive the link-bars, so that they will not obstruct the bearing-surface formed by the two plates on which
55 the center plate, E, rests. A central aperture or bearing, c, is provided for the pivotal bearing d and the pivot-bolt e, whereby the center plate, E, is connected to the rear section or plate, C, of the yoke, as shown in the drawings. 60 The pivotal bearing-plate E is made broad, and is usually circular in form, having at its center a pivotal projection, d, which engages a bearing in the plate C, and a pivot-bolt, e, which passes through the plate C and serves
65 to connect the two plates together. The rear edge of the center plate, E, is provided with a hook-bearing, g, which engages the circular rear edge, h, of the rear yoke-plate, C.

H indicates the plow-beam, which is firmly
70 connected to the center plate, E, by the clip-bar k and the bolts l, the heads m of which are seated in recess-bearings z in the under surface of the plate. When the center plate is connected to the rear portion of the yoke by means
75 of its pivot-bolt a strong coupling is formed, and as the broad center plate engages the yoke-surface no rocking movement is permitted to the beam which is rigidly secured thereto. The center plate being pivoted to the rear or parallel-moving section of the yoke, the beam is
80 allowed to maintain its direct line uninfluenced by the lateral swaying of the draft-frame. In this manner the draft-frame and wheels are relieved from lateral strain, and the plows or
85 shovels are allowed to move steadily and directly forward without describing curves, and are prevented from rocking.

Having described this invention, what I claim, and desire to secure by Letters Patent, 90 is—

1. In a coupling attachment for wheel plows and cultivators, the sectional yoke having a laterally-moving rear section bearing the center plate which carries the beam, substantially 95 as specified.

2. In a coupling attachment for wheel plows
and cultivators, the yoke-plates B and C, con-
nected by parallel-moving link bars or connec-
tions D, and the broad center plate, E, carrying
5 the beam and connected to the rear plate, C, of
the yoke by a pivot-bolt, substantially as speci-
fied.

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

NOAH SWICKARD.

Witnesses:

W. E. CLARK,

W. J. CALHOUN.