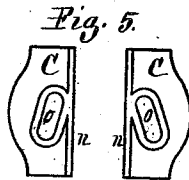
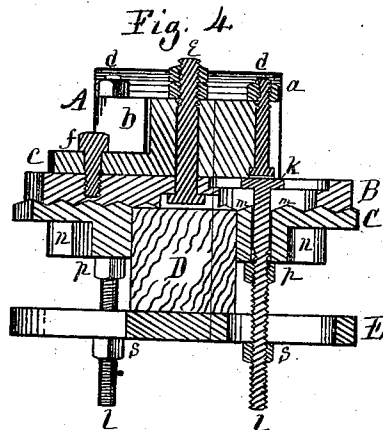
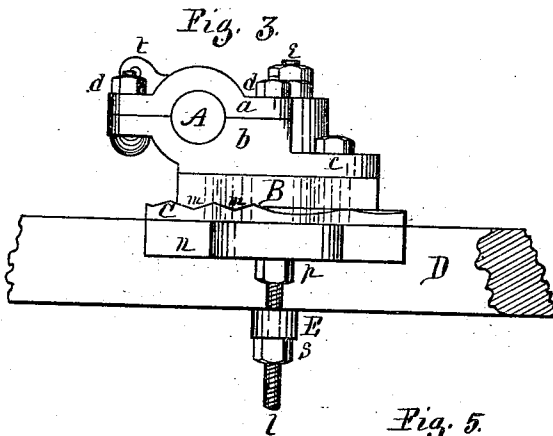
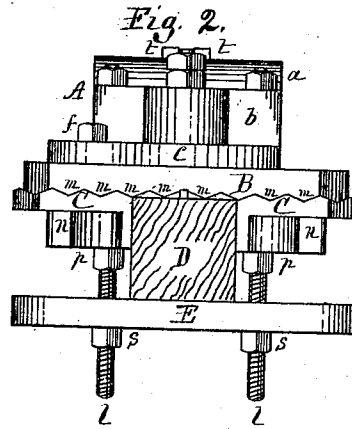
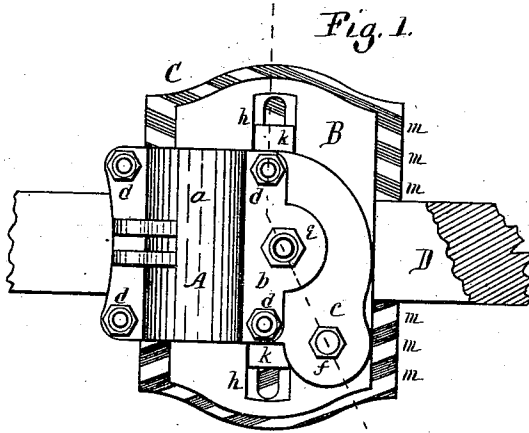


J. B. RALSTON.

SULKY-PLOW.

No. 178,558.

Patented June 13, 1876.



Attest
J. E. Behel
A. O. Behel

Inventor
John B. Ralston.
Per Jacob Behel
Atty.

UNITED STATES PATENT OFFICE.

JOHN B. RALSTON, OF ROCKFORD, ILLINOIS, ASSIGNOR TO HIMSELF AND
MATHEW HARVEY, OF SAME PLACE.

IMPROVEMENT IN SULKY-PLOWS.

Specification forming part of Letters Patent No. **178,558**, dated June 13, 1876; application filed
December 30, 1875.

To all whom it may concern:

Be it known that I, JOHN B. RALSTON, of the city of Rockford, State of Illinois, have invented a Clamping Device to Connect Plows to a Sulky Attachment, of which the following is a specification:

The object of my invention is to provide a clamping device capable of receiving plows having beams differing in size and of any of the usual forms, and hold the plow rigid vertically, and to permit of a free rocking or tilting movement thereof vertically, and a lateral swinging movement, which, when desired, may be rendered rigid by the insertion of a screw, bolt, or pin. To this end I have devised and constructed the device which I now proceed to describe.

In the drawings, Figure 1 is a plan view; Fig. 2, a rear elevation; Fig. 3, a side elevation; Fig. 4, a vertical section on dotted line on plan view; and Fig. 5, a view of the under side of the side clamping-plates, and are designed to represent my invention, in which—

A is a box, substantially such as are used for the bearings of shafting in machinery, and is designed to receive a crank-formed axle of the sulky attachment, or a connecting link or other device, by which it is connected to the sulky in such a manner as to permit of a free rocking or tilting movement on its bearing; and consists of a cap, *a*, and bed-plate *b*, provided with plate-formed flange *c*, and held in place by screw-bolts *d*. This box is mounted on a base-plate, B, to which it is connected by a swivel-joint by means of a king-bolt, *e*, which passes upward through the base-plate B and the box A, and is fitted with check-nuts, and held in such a manner as to permit of a free lateral swinging movement of the plow when attached. The flange-plate *c* and base B are provided with holes to receive the bolt *f*, which, when inserted, will prevent any lateral swinging movement of the swiveled base-plate B, or of the plow thereto attached, the bolt to be used when circumstances require the plow to be held on the carriage rigid laterally. The base-plate B is provided with transverse slots *h*, countersunk, to receive the square heads *k* of clamping-bolts *l*, which pass

through the slots *h*, in which they are adjustable laterally, for the purpose of receiving plow-beams differing in size, and plows cutting furrows differing in width. The base-plate B is provided on its under side with diverging saw-tooth corrugations to receive the corresponding corrugations *m* on the upper surface of the side clamping-plates C, which are provided with vertical flanges *n* to embrace the sides of the plow-beams D. The plates C are also provided with bossed oblique slots *o*, having the same direction of the corrugations *m*, and by the clamping-bolts *l* are held in contact with the base plate B, by screw-nuts *p*, in such a manner as to permit them to be driven rearwardly; and, being guided by the corrugations, the flanges will be forced against the sides of the plow-beam, gripping it firmly sidewise. A slotted clamping-bar, E, is provided, which is passed onto the clamping-bolts *l*, on the under side of the beam D, and by means of the screw-nuts *s* the beam is held firmly between the clamping-bar E and base-plate B.

By means of the above devices the plow-beam is firmly clamped on all four sides.

The box A is provided with perforated ears *t*, for the reception of a chain or link to connect it with a raising and lowering device for the purpose of raising and lowering the plow to work at different depths, and to carry the plow in turning or in transportation.

I claim as my invention—

1. The combination of base-plate B and clamping-plates C, corrugated, substantially as described, and clamping-bolts *l*, operating to clamp the plow-beam sidewise, and to adapt it to plow-beams differing in width and to plow-cutting furrows of different widths, substantially as hereinbefore set forth.

2. The base-plate B and side clamping-plates C, corrugated, substantially as described, clamping-bolts *l*, and clamping-bar E, in combination with the box A, swiveled thereto by king-bolt connection, substantially as and for the purpose hereinbefore set forth.

JOHN B. RALSTON.

Witnesses:

C. P. BRADY,
MATTHEW HARVEY.