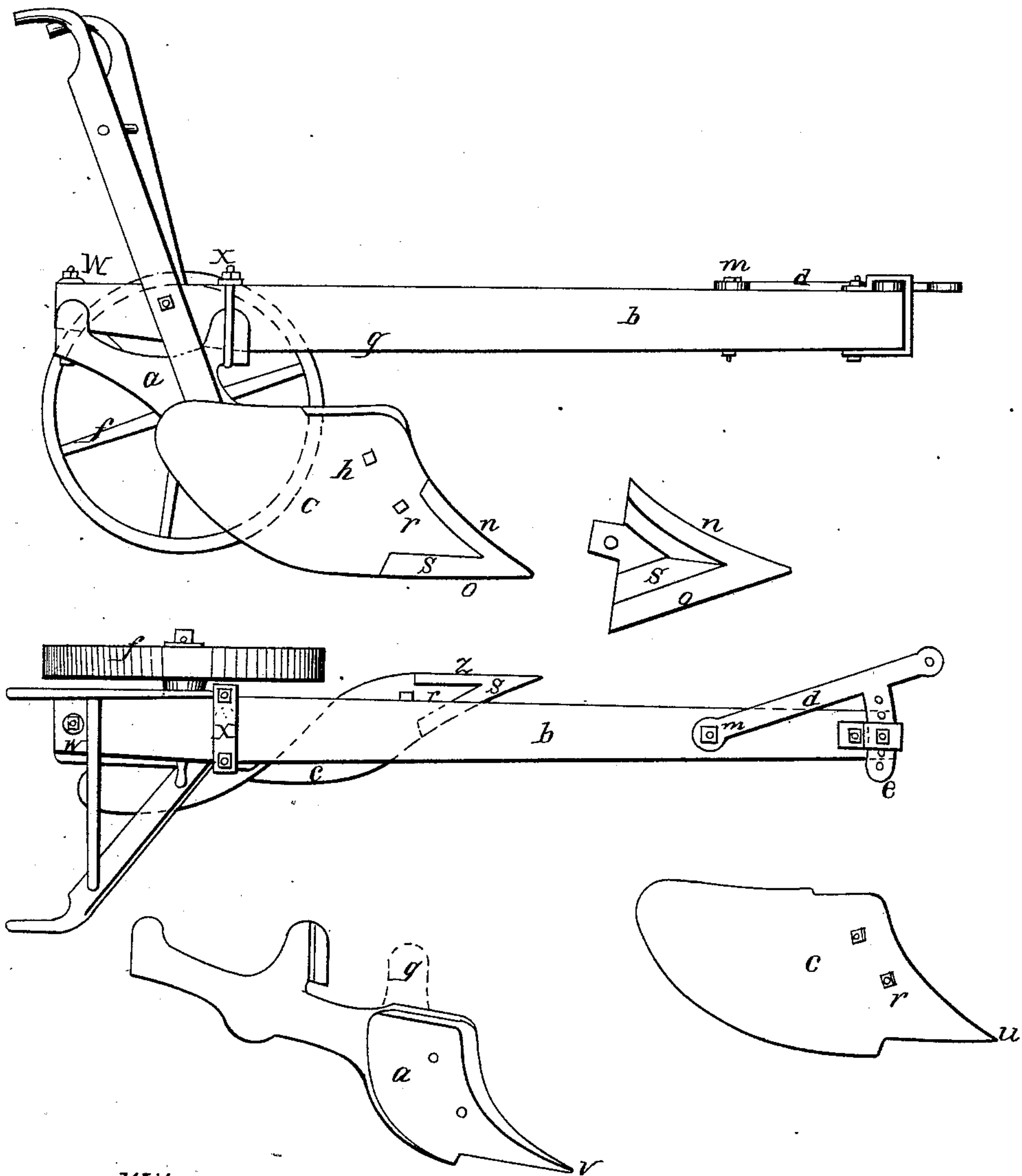


F. FELDHAUS.

Plow.

No. 69,555.

Patented Oct. 8, 1867.



Witnesses

A D Evans
John F. Cook

Inventor:

Ferdinand Feldhaus

United States Patent Office.

FERDINAND FELDHAUS, OF BALTIMORE, MARYLAND,

Letters Patent No. 69,555, dated October 8, 1867.

IMPROVED HILL-SIDE PLOUGH.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known, that I, FERDINAND FELDHAUS, of Baltimore, in the county of Baltimore, in the State of Maryland, have invented a new and improved "Hill-Side Plough;" and I do hereby declare the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing a plough with a board shank, *a*, a movable mould-board, *c*, a flanged share, *S*, a segmental clevis, *d*, and a side wheel, *f*, all so combined as to render it convenient to adapt the plough at pleasure to hill-side ploughing.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a plough with a "board shank," as at *a*, firmly bolted to the beam *d*, to which shank is bolted the mould-board *c*, which is movable. By this means, in case of breaking the mould-board *c*, it is easily replaced. The share *S* differs from all others in being formed without a heel on the land-side, as at *Z*; and as a plan superior to and more convenient than all former ones for attaching it readily to the mould-board *c*, it is provided with inner flanges, both on its vertical edge *n*, and on its horizontal edge *o*, and is fastened to the mould-board *c* by a single bolt, as at *r*, which at the same place passes through the board shank *a*, and fastens the share to that also. In attaching the share *S* to its place, its flanges *n* and *o* are slipped over the toe *u* of the mould-board *c*, and the toe *v* of the board shank *a*, thus making its attachment very strong and firm. The wheel *f* receives the main weight of the plough, steadies it, and assists in giving it ready motion. The board shank *a* is attached to the heel of the beam *b* by the bolt *w*, and the U bolt *x*. The foremost attachment of the board shank *a* to the beam *d* may be placed as far forward as would bring it directly above the face of the mould-board, at the point *g* on the beam, if desired. The board shank *a* is so shaped as to receive the strain endwise. Attached to the end of the beam *b* is the segmental clevis *d*, the segment *e* of which is provided with a number of holes, through either of which a bolt is passed, fastening it to the end of the beam. In altering its position, the clevis *d* is allowed to vibrate upon the bolt *m* as a centre. The clevis *d* may be attached to the top of the beam, as shown in the drawing, allowing it to vibrate horizontally, or to the side of the beam, allowing it to vibrate vertically. By its use the ploughman may readily regulate the depth of furrow, or the direction of the plough. *h* is a bolt used to fasten the mould-board *c* to the board shank *a*, holding it independently of the bolt *r*. By this means the share *S* may be removed without disturbing the mould-board. This, as a plough for all work, is particularly adapted to "hill-side" ploughing.

What I claim as my invention, and wish to secure by Letters Patent, is—

The construction, combination, and arrangement of the board-shank *a*; and movable mould-board *c*, as shown.

Also, the segmental clevis *d*, either horizontally or vertically arranged, as described.

Also, the flanged share *S*, as constructed and applied.

FERDINAND FELDHAUS.

Witnesses:

A. D. EVANS,

JOHN F. COOK.