H. Stem.

Plow.

No. 92,898. Patented Jul. 20, 1869.

Fig. 1

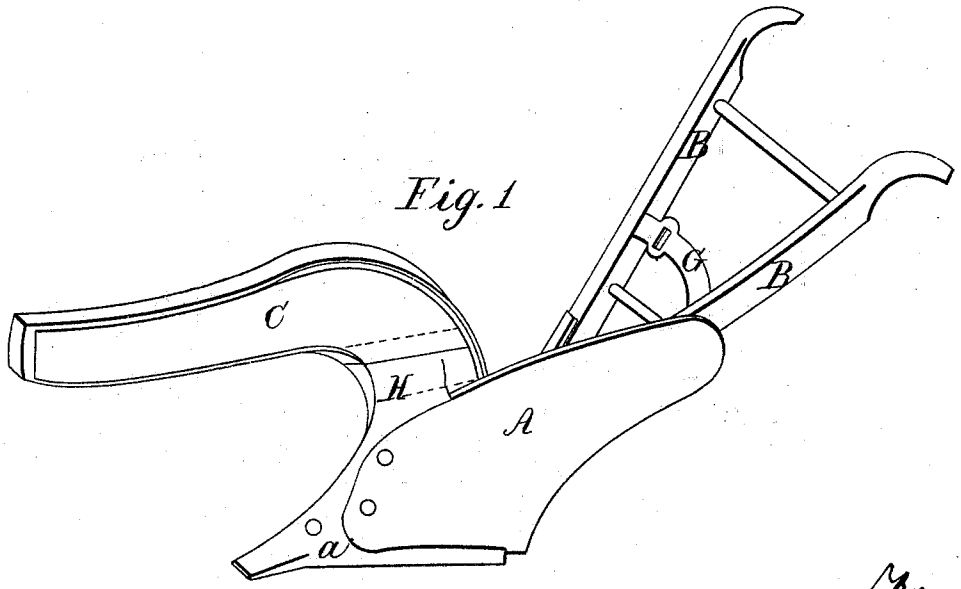


Fig. 2

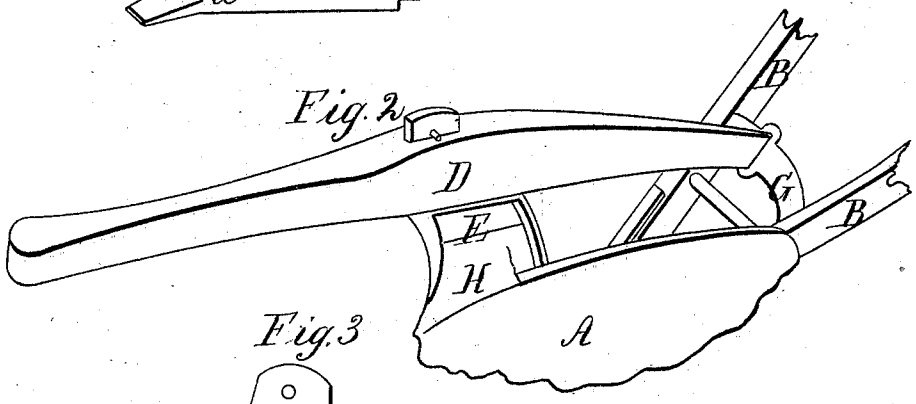
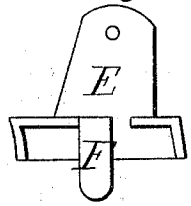


Fig. 3



Witnesses

J. M. Stoops

A. L. Lewis

Inventor

Henry Stem

per Francis Thurston

Atty.

UNITED STATES PATENT OFFICE.

HENRY STEM, OF MIFFLINBURG, PENNSYLVANIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **92,898**, dated July 20, 1869.

To all whom it may concern:

Be it known that I, HENRY STEM, of Mifflinburg, in the county of Union, and in the State of Pennsylvania, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in constructing a plow in such a manner that the labor to both man and beast, in using it, shall be greatly lessened, and which shall at the same time be perfectly simple in all its parts.

Figure 1 represents a perspective of my invention with an iron beam attached. Fig. 2 is a similar view with a wooden beam attached. Fig. 3 is a side view of the metal plate by which the wooden beam is attached to the share.

Letter H represents the frame of the plow, to which are attached the landside, the plowshare *a*, and the mold-board A. The handles B B are secured to the mold-board and to the frame. Two kinds of beams can be used upon the frame H—one beam, C, of metal, and one, D, of wood—the top of the frame H being level for the attachment of either beam, as hereinafter described.

Extending downward from the rear end of the metal beam C is a flat metal plate, upon the landside of the plow, which fits in a groove formed upon the top of the frame. A bolt or screw is then passed through the plate into the frame, and the beam is thus held securely in place, the draft coming upon this plate as it rests in the grooves. When it is desired to use the wooden beam D, a slot or mortise is cut through it, so as to allow the upper portion of the metal plate to be passed through, which is then secured by a bolt, to prevent its coming out again. The lower end of this plate E is formed so as to fit the top of the frame, as seen in Fig. 2, which is then secured to it by means of the small flat bar F. Instead of the end of the wooden beam stopping at this point, as the metal one does, it passes on back, and the end is secured in the slotted bar G, which is attached to the handles.

The handles of my plows are attached to the frame and mold-board in such a position that all the power exerted by the man in holding them falls in a straight line upon the landside of the plow, and as the beams are all secured just at the top of the frame the draft of the horses falls exactly on the same line. Thus the whole power exerted falls in one exact line, making it easier for the man and for the beasts.

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

1. The metal plates E and F, when used to attach the beam D to the share, in combination with the slotted plate G, substantially in the manner and for the purpose set forth.

2. So constructing the top of the frame H, with a groove formed upon its landside, that two kinds of beams can be used, in the manner and for the purpose specified.

3. The combination of the frame H, share *a*, mold-board A, handles B B, plate G, and the beams D or C, when the several parts are constructed to operate substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of April, 1869.

HENRY STEM.

Witnesses:
GEORGE MADER,
SIMON F. MADER.