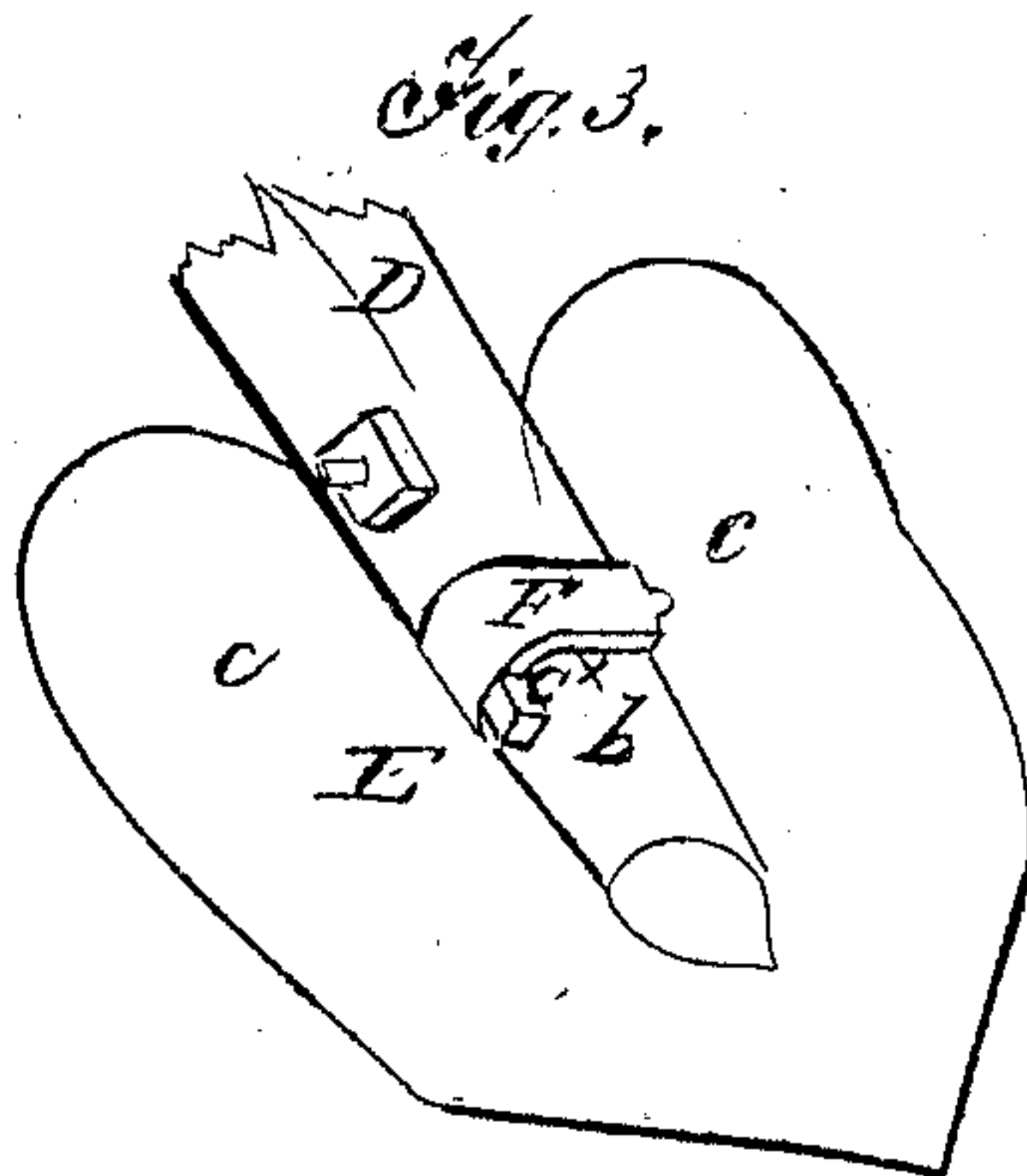
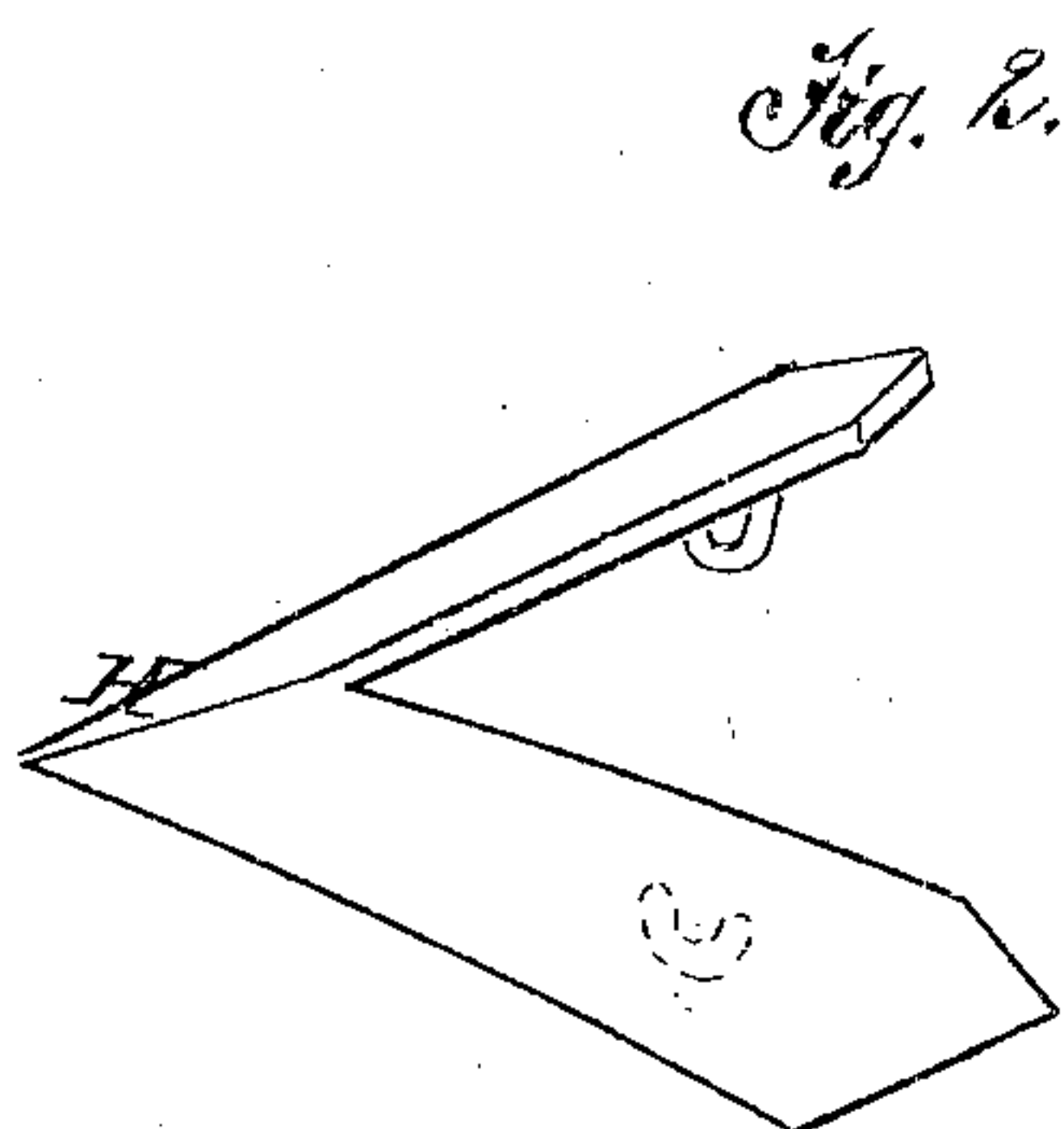
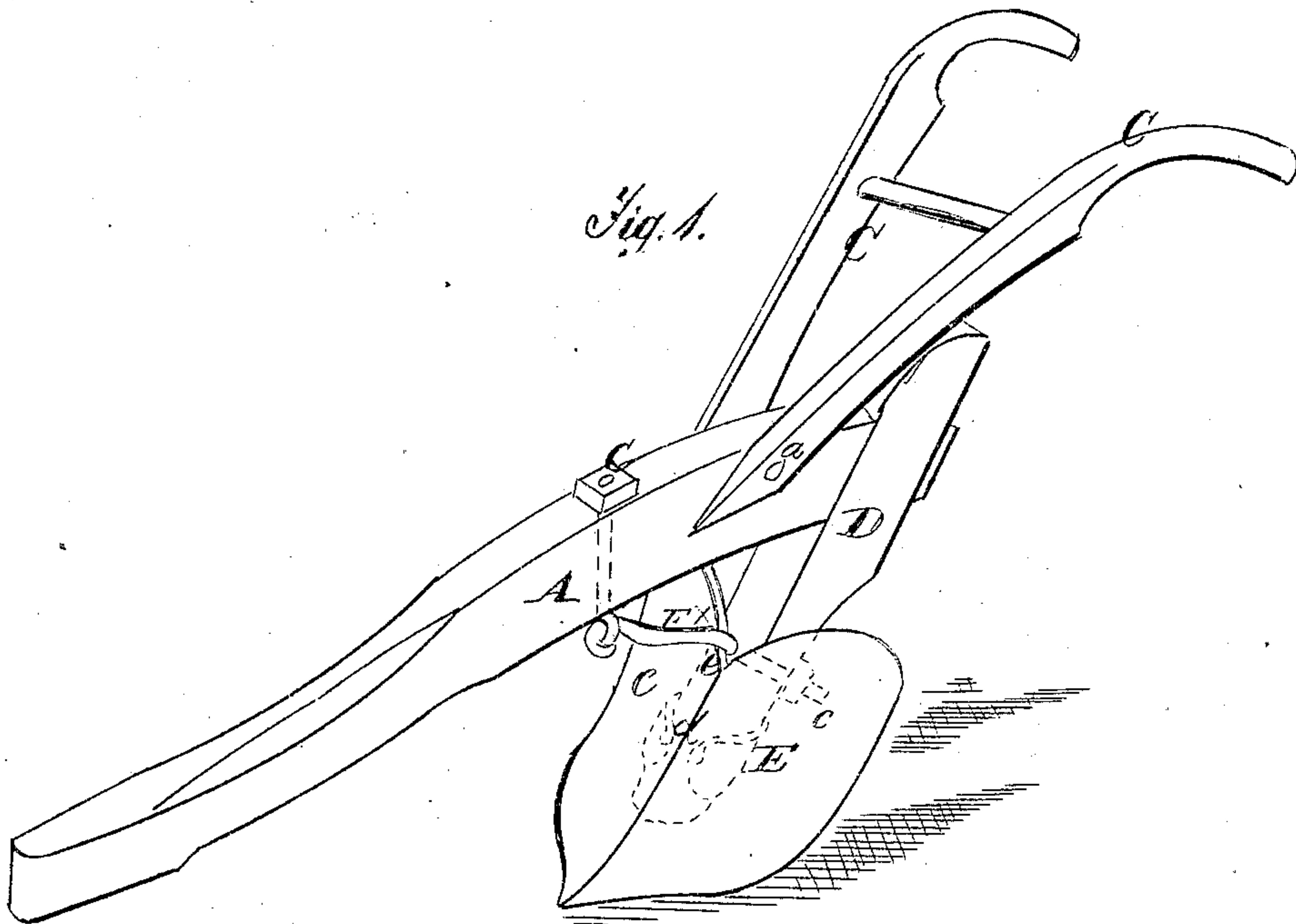


PATENTED

JAN 21 1868

W. T. Howell's Plow.

73606



Witnesses.

H. C. Asperkette
Chas. Ince

Inventor.

W. T. Howell
per *Mumf & Co*
attorneys

UNITED STATES PATENT OFFICE.

W. T. HOWELL, OF ALFRED, NEW YORK.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 73,606, dated January 21, 1868.

To all whom it may concern:

Be it known that I, W. T. HOWELL, of Alfred, in the county of Allegany and State of New York, have invented a new and Improved Plow; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to a new and useful improvement in that class of plows which are commonly termed "shovel-plows;" and it consists in a novel and improved manner of attaching the blade or share to its standard, as hereinafter fully shown and described, whereby a very firm attachment of the same to the standard is obtained, and one which will admit of the share being very readily applied to and detached from the standard.

In the accompanying sheet of drawings, Figure 1 is a perspective view of a plow provided with my improvement; Fig. 2, a detached view of a steel point pertaining to the same; Fig. 3, a rear perspective view of the lower part of the same.

Similar letters of reference indicate corresponding parts.

A represents the beam of a plow, and C C the handles, the lower ends of which are secured to the same by a single bolt, *a*. D represents the plow-standard, with the upper part of which the rear end of the beam is framed. This standard has an inclined position, and its lower part, *b*, is of cylindrical form, as shown clearly in Fig. 3.

E represents the share, which is made of iron or steel, and if of the latter material the point and share may be made out of one piece. The share has oblique sides *c c*, with a sharp

ridge, *d*, extending its whole height, from the lower end or point to the center of the top, which is hollowed out, so as to have quite a recess or depression, *e*, as shown clearly in Fig. 1. The share has a band, F, attached to its rear side, and this band is fitted on the lower cylindrical part, *b*, of the standard, and rests upon a metal pin, *c*^x, which is driven into the standard, as shown clearly in Fig. 3. The share is prevented from turning on the standard D by means of a brace-rod, F^x, the front end of which is hooked in the lower end of a bolt, G, which passes vertically through the beam A, and has its rear end passing through the standard D, the rod F^x being in the recess or depression *e* in the top of the share, as shown clearly in Fig. 1, and consequently preventing the share from turning.

In case cast-iron shares be used, I have a steel point, H, shown in Fig. 2, secured to the lower end of the share, said point being of V shape, to conform to the shape of the share.

The plow thus constructed is extremely strong and durable, and a broken or worn share may be detached from the standard and a new one applied with the greatest facility.

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

The attaching of the share E to its standard D by means of the band F, fitted on the cylindrical part *b* of the standard, the pin *c*^x on which the band rests, and the brace-rod F^x, fitting in the recess or depression *e* in the top of the share, all arranged substantially as shown and described.

W. T. HOWELL.

Witnesses:

DANIEL G. VINCENT,
E. C. GREENE.