(No Model.)

A. J. NELLIS.

PLOW STANDARD.

No. 376,448. Patented Jan. 17, 1888.

Fig. 1.

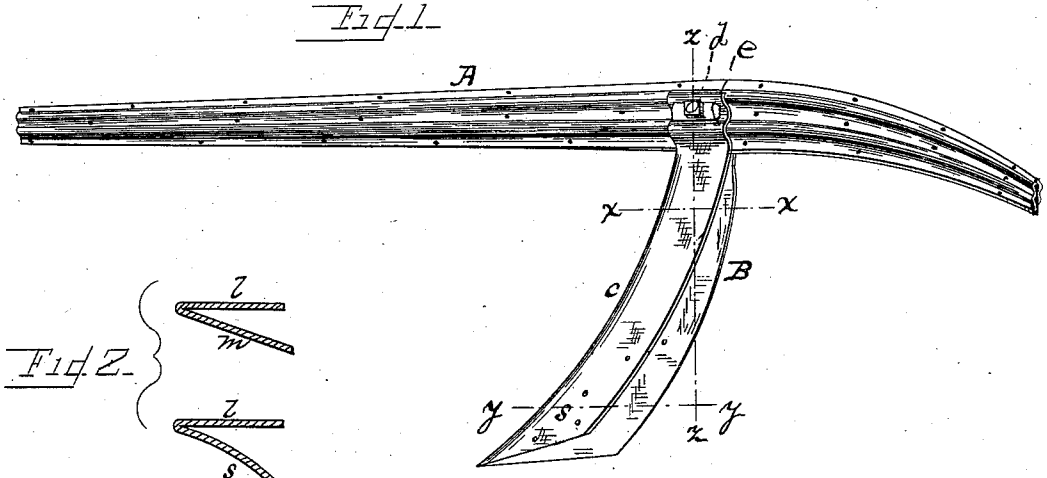
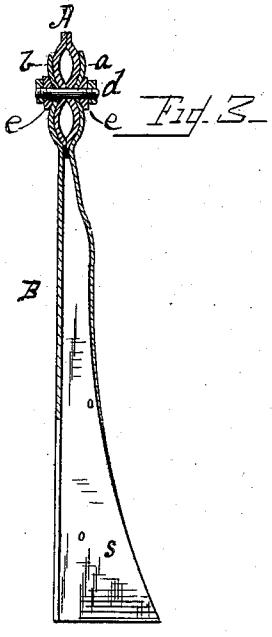


Fig. 2.

Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

AARON J. NELLIS, OF PITTSBURG, PENNSYLVANIA.

PLOW-STANDARD.

SPECIFICATION forming part of Letters Patent No. 376,448, dated January 17, 1888.

Application filed June 18, 1886. Serial No. 205,566. (No model.)

To all whom it may concern:

Be it known that I, AARON J. NELLIS, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Plows; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, wherein—

Figure 1 is a perspective view of a beam and standard embodying my invention; Fig. 2, sectional views of the standard on the lines *x x* and *y y*, Fig. 1. Fig. 3 is a rear view, partly in section, on the line *z z*, Fig. 1.

Like letters refer to like parts wherever they occur.

My invention relates to the construction of plows, cultivators, and like agricultural implements, where spring or elasticity in the beam and standard are required to relieve the user and the team from shocks, and to render the plow, &c., lighter and more readily manageable; and it consists in the combination of an elastic plate-metal plow-beam and a longitudinally-folded elastic metal standard having its upper end bifurcated to clasp the plow-beam, and also in minor features of construction, whereby the connection and coaction of the beam and standard are rendered more efficient, all substantially as will hereinafter more fully appear.

I will now proceed to describe my invention more specifically, so that others skilled in the art to which it appertains may apply the same.

In the drawings, A indicates a metallic beam, and B the standard, to which the landside, the share, and the mold-board of a plow or equivalent implement may be bolted or secured in the usual or any approved manner.

The plow-beam A consists of one or more blanks, of elastic plate metal, preferably of open-hearth, Bessemer, or other steel or plate-iron of high grade, having longitudinal corrugations, which not only serve to strengthen or stiffen the beam, but also afford greater strength and security to the connection of the beam and standard, as the ribs of the beam enter transverse corrugations or grooves in the bifurcated end of the standard and serve as braces thereto. If two such blanks are used in constructing the beam, they are preferably riveted together with the concavities of the corrugations facing, so as to obtain a strong, stiff, light, elastic, and symmetrical beam.

The standard B is formed from a plate of similar material, bent or folded longitudinally, so as to have the curved spine *c* and, if required, the saddle-flare *a*. This standard will be of general V shape in cross-section, (see Fig. 2,) and, while possessing great strength, will be elastic or spring-like in action, and will be of desirable form for the attachment of the mold-board and landside of a plow.

The standard B may be fitted to the beam A by splitting its upper end to form a fork or two straps, *a b*, and corrugating said straps transversely to conform to the longitudinal corrugations of the beam A, the parts being finally secured by rivets or bolts.

A very strong and secure connection between the parts can be obtained by means of the blocks *e* and through bolt *d;* and such a connection is very desirable, as it requires but a single bolt-hole and does not materially weaken either the beam or standard.

I do not herein broadly claim a longitudinally-corrugated plate-metal plow-beam, as the same is shown and described in a prior patent to me, No. 219,006, dated August 26, 1879; but,

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

1. The combination, with an elastic plate-metal plow-beam, of a longitudinally-folded elastic metal standard having its upper end bifurcated, substantially as and for the purposes specified.

2. The combination, with a longitudinally-corrugated metal plow-beam, of a plate-metal standard of V-cross section, and having a bifurcated transversely-corrugated end to clasp the longitudinally-corrugated beam, substantially as and for the purposes specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 17th day of June, 1886.

AARON J. NELLIS.

Witnesses:
F. W. RITTER, Jr.,
S. A. TERRY.