J. F. MUELLER.

METHOD OF MAKING PLOW POINTS.

APPLICATION FILED MAR. 6, 1912.

1,053,057. Patented Feb. 11, 1913.

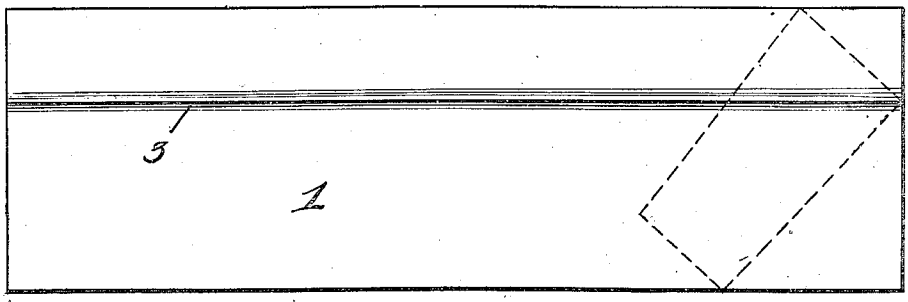

Fig. 1.

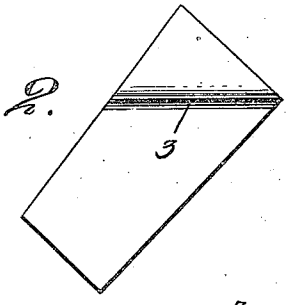

Fig. 2.

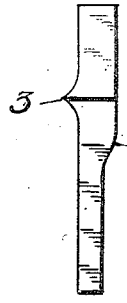

Fig. 3.

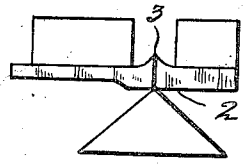

Fig. 3a.

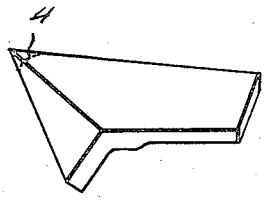

Fig. 4.

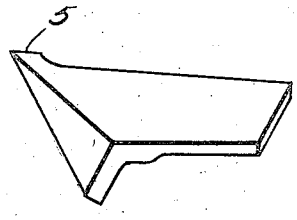

Fig. 5.

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METHOD OF MAKING PLOW-POINTS.

1,053,057. Specification of Letters Patent. Patented Feb. 11, 1913.

Application filed March 6, 1912. Serial No. 681,946.

To all whom it may concern:

Be it known that I, JOHN F. MUELLER, a citizen of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented new and useful Improvements in Methods of Making Plow-Points, of which the following is a specification.

My invention relates to improvements in methods of making plow points and its object is to enable the same to be made from a single piece of steel or wrought iron with as few operations as possible.

I am aware that it is not new to form plow points by bending a piece of steel, but it is also known that when a piece of metal is simply bent the resultant corner is round and requires additional treatment to square up. It is in this bending operation that my invention resides.

Broadly speaking, my invention consists in providing a ridge upon the face of a blank so that when the metal is bent along the line of the ridge, the material composing the ridge will compensate for the material taken up in bending, and will thus form a square corner.

My invention will be described in detail hereinafter and illustrated in the accompanying drawings in which—

Figure 1 shows a rolled piece of steel or wrought iron from which are stamped the blanks from which points are made as shown in dotted lines. Fig. 2 is a plan view of one of the blanks from which my point is formed. Fig. 3 is an edge view of the blank shown in Fig. 2. Fig. 3ª is a view of dies applied to the blank to accomplish the bending operation. Fig. 4 is a perspective view of the point as it appears after the bending operation, and Fig. 5 is a perspective view of the completed sharpened point.

Referring now to the drawings 1 represents an elongated sheet of rolled steel or wrought iron, which has its lower face thickened at 2 adjacent one edge. The upper face of said sheet of steel is provided with a wedge shaped ridge or shoulder 3 which is about midway between the edges of the thickened portion 2, on the opposite face of the plate. From the sheet of metal thus formed are stamped or sheared blanks from which the points are made and as shown in Fig. 1 of the drawings, they are stamped obliquely from the sheet, so that the ridge or shoulder 3 extends obliquely across one edge of the blank. The blank thus formed is bent into the form shown in Fig. 4 of the drawings and the bending on the line of the shoulder forms a square corner as clearly shown in Fig. 4 of the drawings. The shoulder allows for the extra metal required in bending and it being of a V-shape the corner is approximately square. The point thus formed does not have to go through the usual rolling operation to form the square shoulder at the point where the blank is bent.

Either before or after the bending the acute point 4 is cut off along the dotted line, Figs. 3 or 4, and the metal is drawn out and sharpened to form a cutting edge 5 shown in Fig. 5, which illustrates the completed point. It will be observed that the thickened portion 2 strengthens the short bond side of the plow point, and also provides sufficient material to allow the point to be sharpened when dulled by use, thus increasing the durability of the plow point. This bending may be accomplished in any desired way. In Fig. 3ª I have illustrated dies for bending the blank. A lower die supports the blank along its lower face and in line with the ridge, while upper movable dies engage the upper surface of the blank upon each side of the ridge. Pressure applied to the upper dies will bend the blank into the form illustrated in Fig. 4.

Having thus described my invention what I claim is—

1. An improved method of making plow points, which consists in taking a sheet of metal plain upon one side and provided with a ridge upon the other side, stamping a

blank from said sheet, and bending the blank on the ridge to form a square corner.

2. An improved method of making plow points, which consists in forming a sheet of metal with a ridge extending longitudinally of the sheet, stamping blanks from the sheet at an angle thereto to bring the ridge obliquely across the ends of the blanks, and bending the blanks along the ridge to form a square corner.

In testimony whereof I hereto affix my signature in the presence of two witnesses.

JOHN F. MUELLER.

Witnesses:

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E. L. CRAIG.