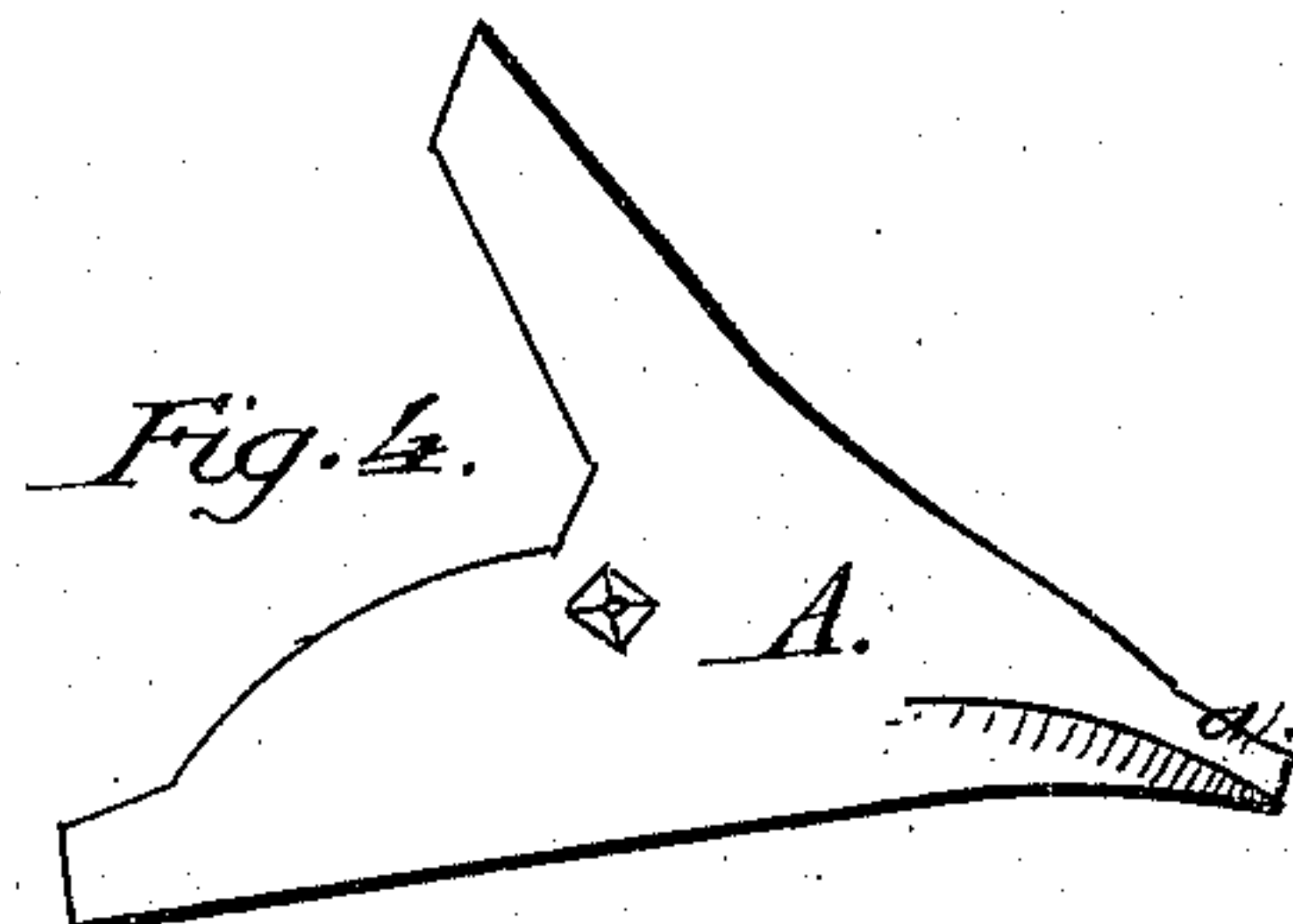
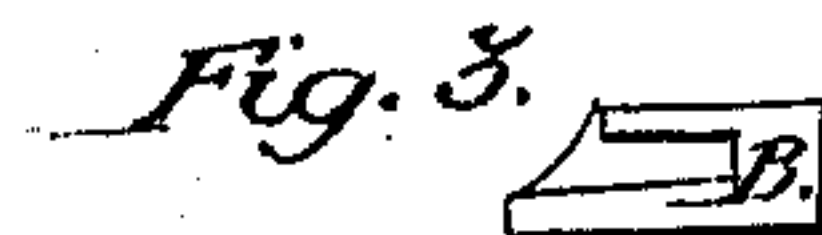
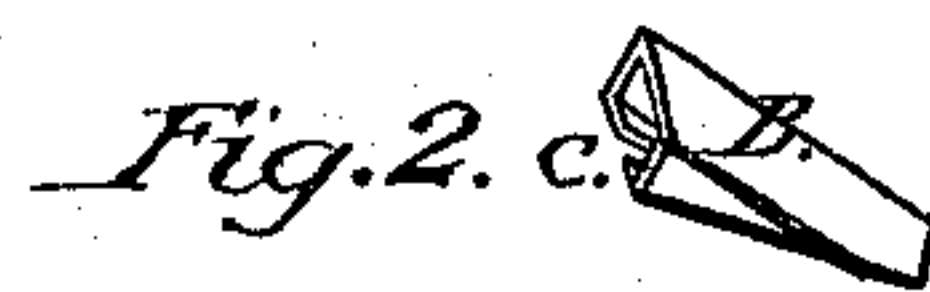
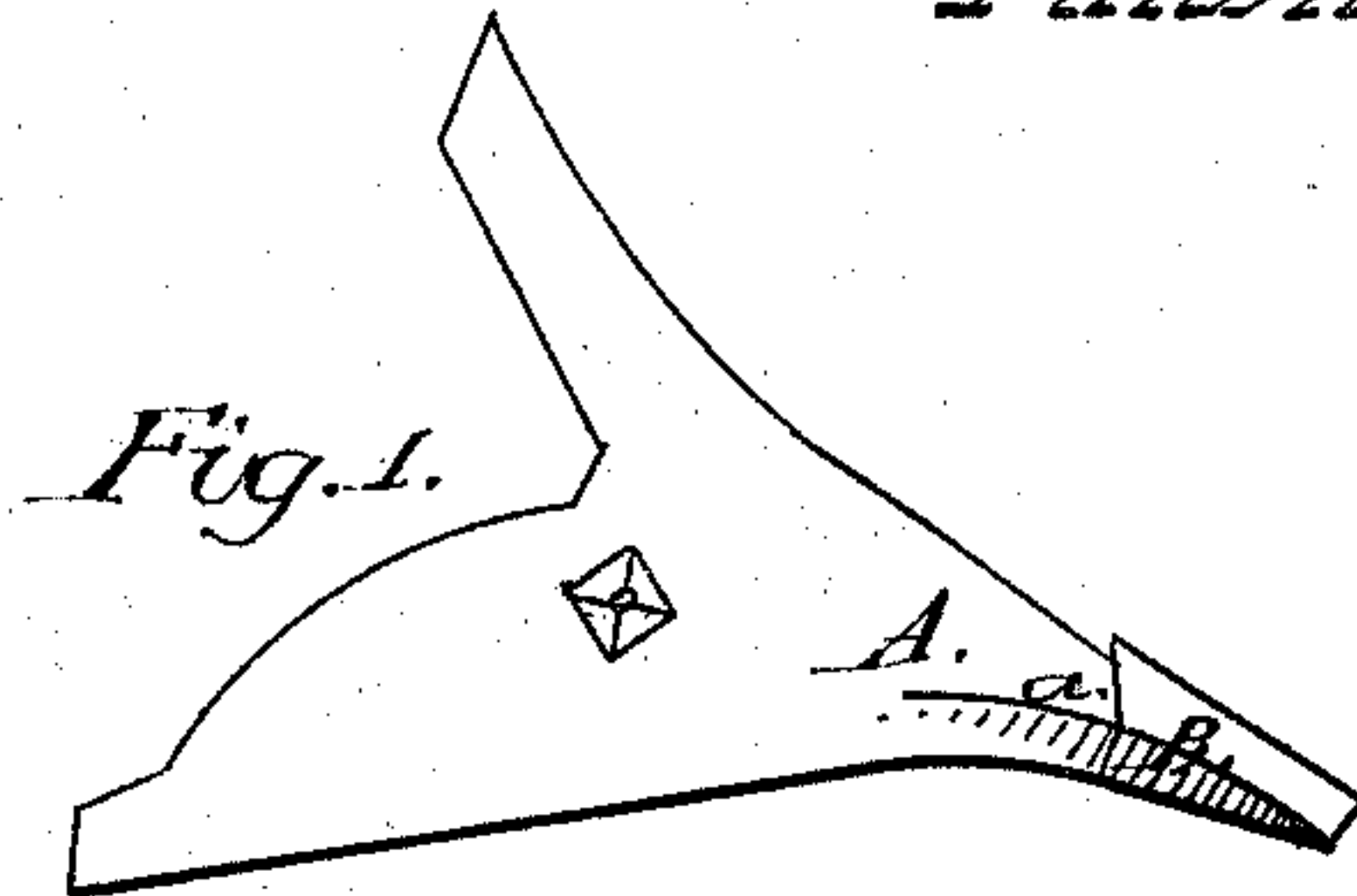


Gero & Cooley

Plow Point

N^o 87,484.

Patented Mar. 2, 1869.



Witnesses:
G. P. Doan
Frank C. Yarnes

Inventors:
E. G. Gero
 Jas. M. Cooley

UNITED STATES PATENT OFFICE

EDWARD C. GERO AND JAMES N. COOLEY, OF KALAMAZOO, MICHIGAN.

IMPROVEMENT IN PLOW-POINTS.

Specification forming part of Letters Patent No. 87,484, dated March 2, 1869.

To all whom it may concern:

Be it known that we, EDWARD C. GERO and JAMES N. COOLEY, in the county and town of Kalamazoo, and State of Michigan, have invented a certain new and useful Improvement in a Socket or an Adjustable Steel Plow-Point; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a cast-iron plow-point with the steel socket-point fitted and secured in its place. Fig. 2 shows a top perspective view of the steel socket-point. Fig. 3 is an under-side view of the same. Fig. 4 shows an ordinary cast-iron plow-point.

The object of our invention is to economize time, labor, and expense in keeping plow-points sharp and the plow in good working order; and our invention consists in the construction and mode of securing steel sockets to plow-points, so that they may be highly tempered, easily sharpened when they become worn and dull, taken off and laid with steel and replaced, thus saving at least one hundred per cent. in the cost.

To enable others to make and use our invention we will describe it more in detail, referring to the drawings, and to the letters marked thereon.

To the ordinary cast-iron plow-point A or share we form and fit a nose or point, B, which should be made out of the best quality of cast-steel, it having a socket, C, to fit the iron point *a* of the share A, the socket being provided with an opening, *b*, on the under side, so as to allow the thin portion of the metal to yield or spring enough to clasp the point sufficiently

tight to hold it on, the force being applied in the direction to press it on harder when in operation, so that no other mode of fastening is absolutely necessary. If desired, the socket-point B may be secured to the share by a pin, screw, or bolt; but in our experience and the thorough practical test that has been made by numerous farmers in our vicinity this season, no other fastening but the spring or the clasping power of the metal of the thinner portions of the socket is required.

The great merits of our simple invention, as will readily be seen, lie in the utility. The socket steel point B may be made and furnished at about one-half the cost of the chilled cast-iron plow-points, and will do three times as much plowing without getting dull, when it can easily be taken off and sharpened and tempered by a common blacksmith, at a trifling cost, three or four times, before it is too much reduced, and then it can be laid with steel and be susceptible of another series of wear and sharpenings, as before described, thus effecting a saving of three or four hundred per cent. in the cost and wear of plow-points.

What we claim as our invention, and desire to secure by Letters Patent, is—

A steel socket plow-point constructed in the manner described, the same being secured to and in combination with a cast-iron plow point or share, substantially as herein set forth.

In testimony whereof we hereunto subscribe our names.

E. C. GERO.
JAS. N. COOLEY.

Witnesses:

G. P. DOAN,
FRANK C. GRIMES.