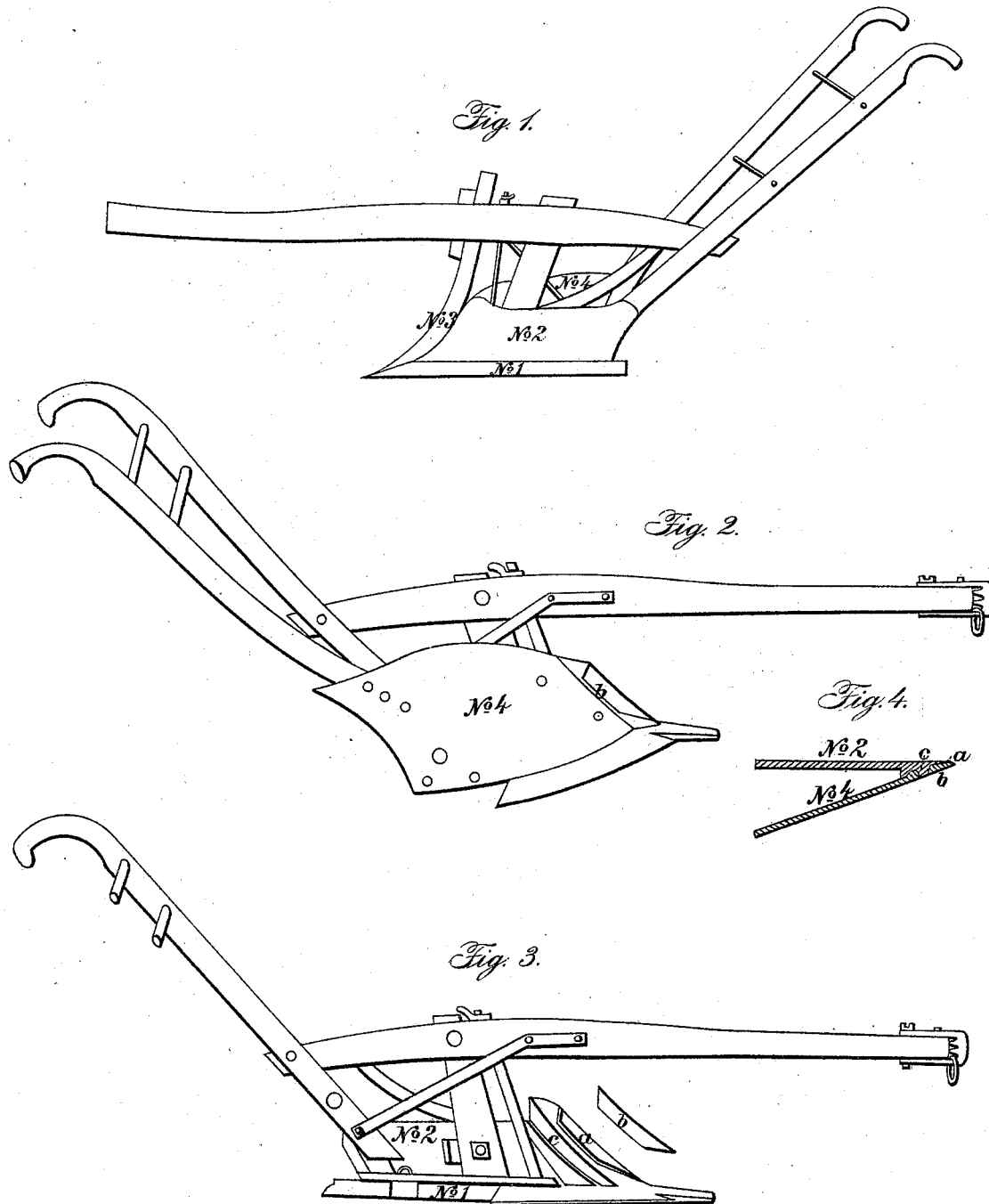


S. I. ROBERTS.

Plow.

No. 3,913.

Patented Feb. 12, 1845,



Witnesses:

Lawrence E. Crossen,
Jacob Boddy,

Inventor:

Seth I. Roberts

UNITED STATES PATENT OFFICE.

SETH I. ROBERTS, OF JEFFERSONVILLE, PENNSYLVANIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 3,913, dated February 12, 1845.

To all whom it may concern:

Be it known that I, SETH I. ROBERTS, of Jeffersonville, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a clear, full, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation of the landside; Fig. 2, the mold-board side with the colter detached, and Fig. 3 detached parts.

The same letters designate the similar parts in all the figures.

The nature of my improvements consists in the landside and the method of connecting the mold-board thereto, the stubble-bit, and the grooved colter, which is made to fit thereto.

The construction is as follows, viz:

The handles, beam, and standard are like those in common use.

The landside No. 2 is a flat casting, the inside of which is shown at Fig. 3. Its general shape is like the ordinary cast-iron landside, except in the following particulars: The front edge is chamfered off on the mold-board side, and there is a recess, *a*, made in it on that side, of a dovetailed form, in which is inserted a piece of steel, *b*, (shown in Fig. 3 removed.) This steel piece comes out to the front edge of the landside and forms the cutting-edge or stubble-bit above named. This always keeps sharp and projecting by the wearing away of the casting on the landside; and it is this construction in front that so much recommends itself for plowing down stubble, manure, &c., without the colter, there being no liability to choke in this operation. Just behind the stubble-bit *b* there is a groove, *c*, in the inside of the landside, which has a similar curve to the front edge. Into this groove the front edge is fastened by bolts or otherwise. The advantage and utility of this plan are obvious, as the whole

then presents, when the two are joined, one entire mold-board, gradually widening back from the front edge of the cutter to the heel of the mold-board in a wedge-like form, as shown in Fig. 4, which is a sectional diagram. Hence the effect is that the plow works with much less power applied to it, and the front edge of the mold-board is secure from accident and wear, being shielded in front in the groove in the landside, while the plan admits the replacing of either of the castings, if found necessary; and the steel-bit can also be replaced, when worn out, by another.

The mold-board No. 4 is about twelve inches high, but narrow in front, where it joins the landside. At this point it is somewhat convex; but from that point back it is rather more concave than usual.

The colter No. 3 has a groove in its back edge, and is curved to fit up to the front edge of the landside, and when in use it shields the stubble-bit. The groove (shown in Fig. 3, No. 3) fits over said bit, and is thereby steadied, in consequence of which the colter need not be so thick or wide in the blade as the common one, and when applied for sod-plowing cuts its way in tough sod much clearer and easier than other structures. The grooved colter needs little or no sharpening. It fits down accurately on the share No. 1 in front, and is fastened in the beam by a wedge, *h*. The nose or point is upon the share No. 1, which is also formed of wrought-steel.

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

The combination of the stubble-bit with the landside-casting, in the manner and for the purpose herein set forth.

SETH I. ROBERTS.

Witnesses:

JAMES SMITH,
EDWARD L. BEAN.