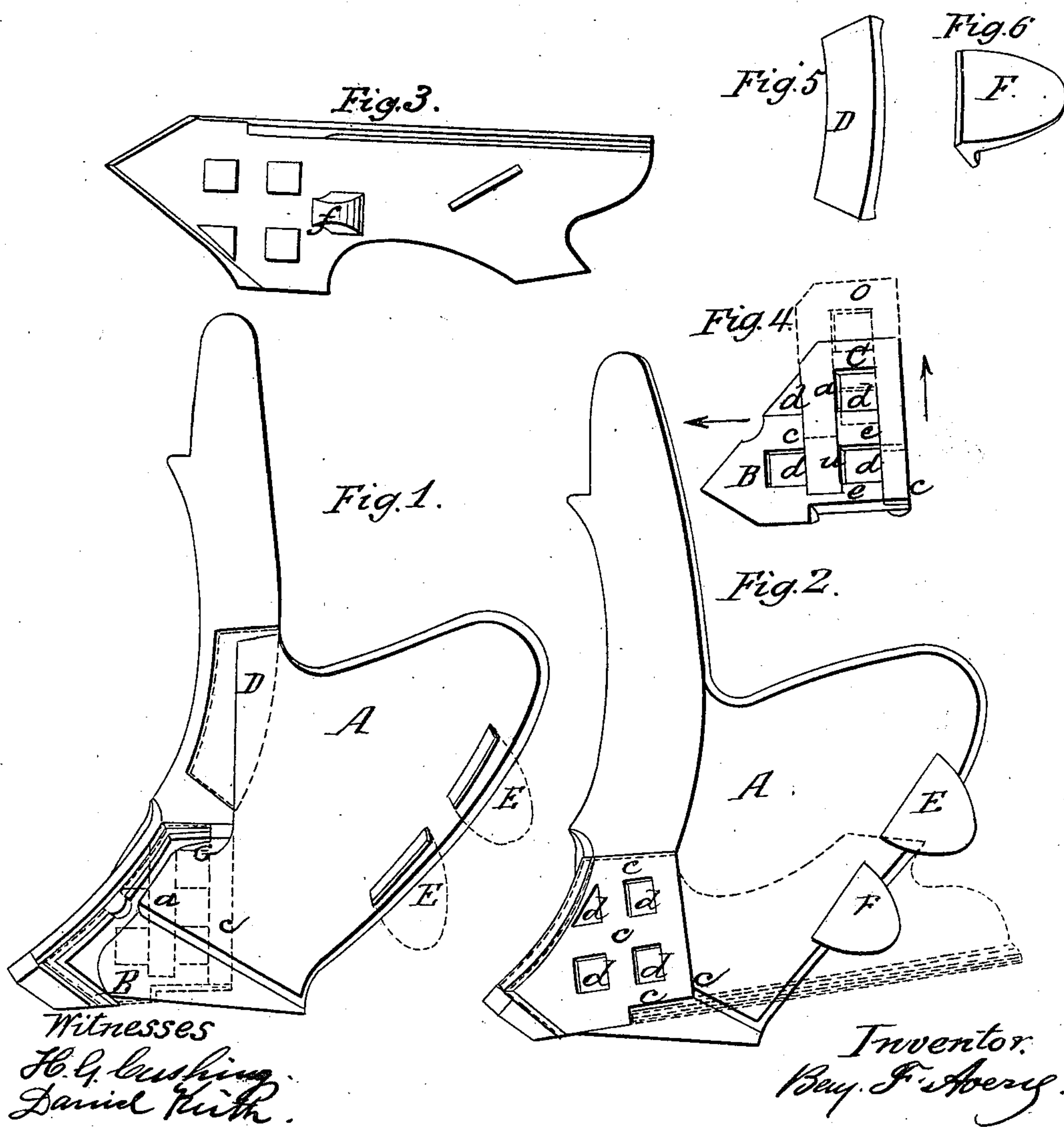


B. F. AVERY.

Plow.

No. 25,873.

Patented Oct. 25, 1859.



UNITED STATES PATENT OFFICE.

BENJAMIN F. AVERY, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN MOLDING PLOWS.

Specification forming part of Letters Patent No. 25,873, dated October 25, 1859.

To all whom it may concern:

Be it known that I, BENJAMIN F. AVERY, of the city of Louisville, in the county of Jefferson and State of Kentucky, have invented a Mode for Molding the Plow which was secured to me by Letters Patent bearing date the 8th day of January, 1856; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents the entire pattern, with the short landside and several parts which constitute the pattern. Those which are detachable are indicated by red lines. Fig. 2 exhibits a casting of the landside of my plow, with the landside shown in red lines. Fig. 3 is an inside view of the landside. Fig. 4 is the pattern of the short landside, with the parts shown in two positions. Figs. 5 and 6 are views of parts of the patterns hereinafter to be described.

My invention consists in constructing the pattern for the short landside of the plow patented by me January 8, 1856 in two parts, so that they may be drawn at opposite angles from each other, and in this manner forming the holes or depressions and ridges or depressed squares upon the outer surface of the short landside, and by this means enabling me to give a variety of forms by which the joint or lock for fastening the landside to the mold-board of cast-iron plows may be used, described and represented as follows:

The mold-board A, without those parts represented in red lines, is laid upon the follow-board with the front surface up and molded in the usual manner. After turning over the drag the short-landside patterns B C are placed in their appropriate seats, as are also all of the other parts lettered D E. The cap or upper half of the flask is then molded, or filled with sand and tempered in the usual manner, and then lifted from the drag, when the parts B C and D E will be removed in the sand with it. It will then be noticed that the obtuse or thick ends of all the loose parts, including the short-landside patterns B C, are merely visible on the surface of the sand in the cap, and that

they can all be readily drawn from the sand, each in its appropriate direction. The pattern for the short landside, the peculiarity of which constitutes my invention, is formed in two parts, B C, so that they can be drawn from the sand in the direction of the arrows of Fig. 4. The parts are made slightly tapering in order to facilitate their being easily removed, and consist of the bifurcated piece C, with the edges of the plate *a* slightly beveled, and with a longitudinal slot in the heavy bar *c*, (this term is given to it in my patent of 1856, above referred to,) into which fits the end of portion B when the two are placed together. These parts slide one in the other, and when placed together, as shown in Fig. 4, form rectangular recesses or depressions *d* upon the outer surface, and the parts *a*, *c*, and *e* form ridges. This short landside is somewhat of a triangular shape, and is fitted in its place upon the plow as exhibited by red lines in Fig. 1.

The segmental piece, Fig. 5, is shown in its place also in Fig. 1, and the fine portions, Fig. 6, are shown attached to the inside of the mold-board of Fig. 1, and in the casting serve to attach the handle of the plow to the mold-board.

The landside proper (shown by Fig. 3) has rectangular bosses or raised portions on its inner surface, and it also has a hook, *f*, curved toward the point of the plow. The bosses fit into the corresponding recesses in the short landside, while the hook passes around the bar *c* in the rear of the short landside, and in this manner the lock is formed, rigidly securing the landside to the plow, as described more particularly in my patent of January 8, 1856.

What I claim as my invention in the method of molding plows, and desire to secure by Letters Patent, is—

The peculiar construction of the patterns B C of the short landside, as set forth, so that they may be drawn at opposite angles from each other, for the purpose and in the manner herein specified.

BENJ. F. AVERY.

Witnesses:

H. G. CUSHING,
DANIEL KIRTH.