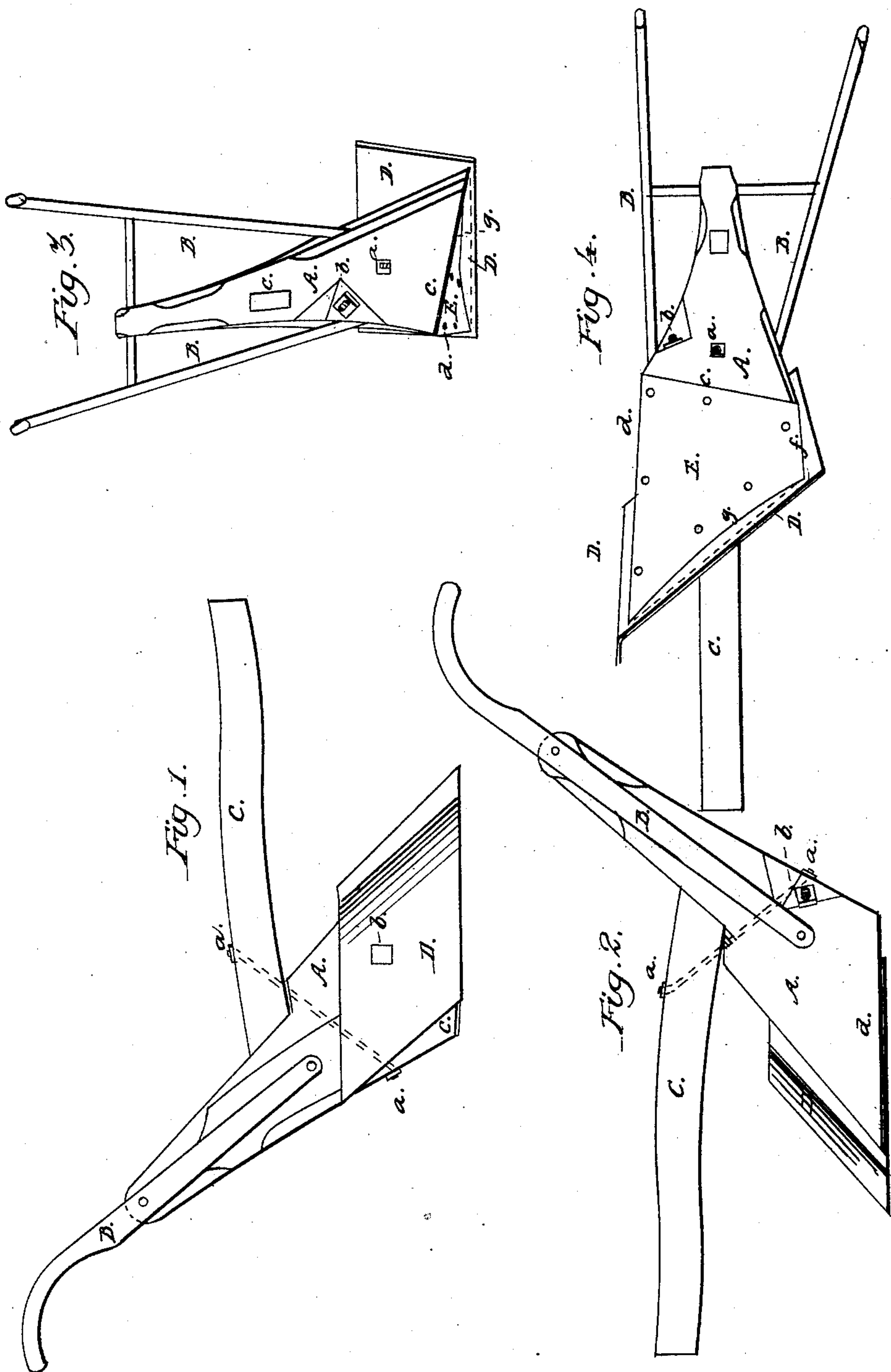


C. A. GAINES.

Shovel-Plow.

Patented Oct. 5, 1858.

No 21,667.



UNITED STATES PATENT OFFICE.

C. A. GAINES, OF WATSON, MISSISSIPPI.

IMPROVEMENT IN COTTON-SCRAPERS.

Specification forming part of Letters Patent No. **21,667**, dated October 5, 1858.

To all whom it may concern:

Be it known that I, C. A. GAINES, of Watson, in the county of Marshall and State of Mississippi have invented a new and Improved Block Cotton-Scraper; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being an elevation showing the right-hand side of the scraper; Fig. 2, an elevation of the opposite side thereof; Fig. 3, a rear elevation thereof, the rear end being raised a little in order to show the bottom of the scraper; Fig. 4, view of the bottom thereof.

Like letters designate corresponding parts in all the figures.

I make use of a block, A, to which are secured handles B B and a beam, C, nearly as usual for such implements, the beam being secured and braced to the block by a bolt, *a*, passing obliquely downward and backward through said beam and block and held by a nut, as represented in the drawings. The mold-board or scraper D is shaped and arranged as usual, a single bolt, *b*, securing it to the block.

My invention consists in the peculiar shape and arrangement of the bottom E of the block, as follows: Instead of forming a plane surface in the ordinary manner, the side and rear edges, *c*, *d*, and *f*, only are in a plane composing the surface which rests on the ground. From these edges inward and forward to the edge *g*, next to the mold-board, the bottom is made hollow

or concave, the depth of said concavity increasing as it approaches the front edge, *g*, and the greatest depth being in the middle thereof. The depth of the concavity is indicated by red lines in Figs. 3 and 4. This construction prevents the mold-board from being thrown out its furrow when passing over any kind of impediment—such as small stones, roots, &c.—as is the case with ordinary scrapers, so that the scraper passes more smoothly and evenly over the ground, thereby doing much better work and being much more easily held and guided.

The bottom may be covered by a thin metallic plate, E, as represented in the drawings, secured to said block by screws or in any other convenient manner, to protect the block from wear; but this is not essential and might be dispensed with, although it adds durability to the implement.

What I claim as my invention, and desire to secure by Letters Patent, is—

Giving a hollow or concave form to the bottom E of the block from the rear and side edges inward and forward to the mold-board or scraper D, substantially in the manner and for the purpose herein specified.

In witness that the above is a true specification of my improved block cotton-scraper I hereunto set my hand this 9th day of July, 1858.

C. A. GAINES.

Witnesses:

THOMAS B. WEBBER,
C. H. STEVENS.