

J. TOMLINSON.

Plow.

No. 41,407.

Patented Jan. 26, 1864.

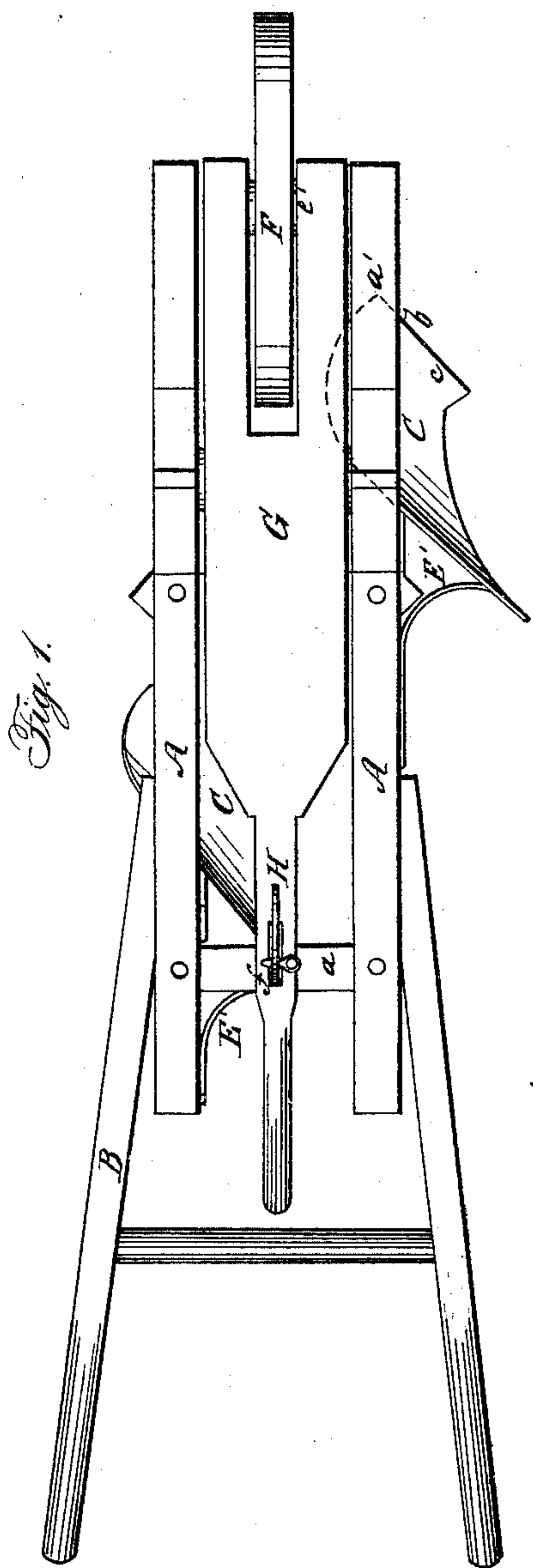


Fig. 1.

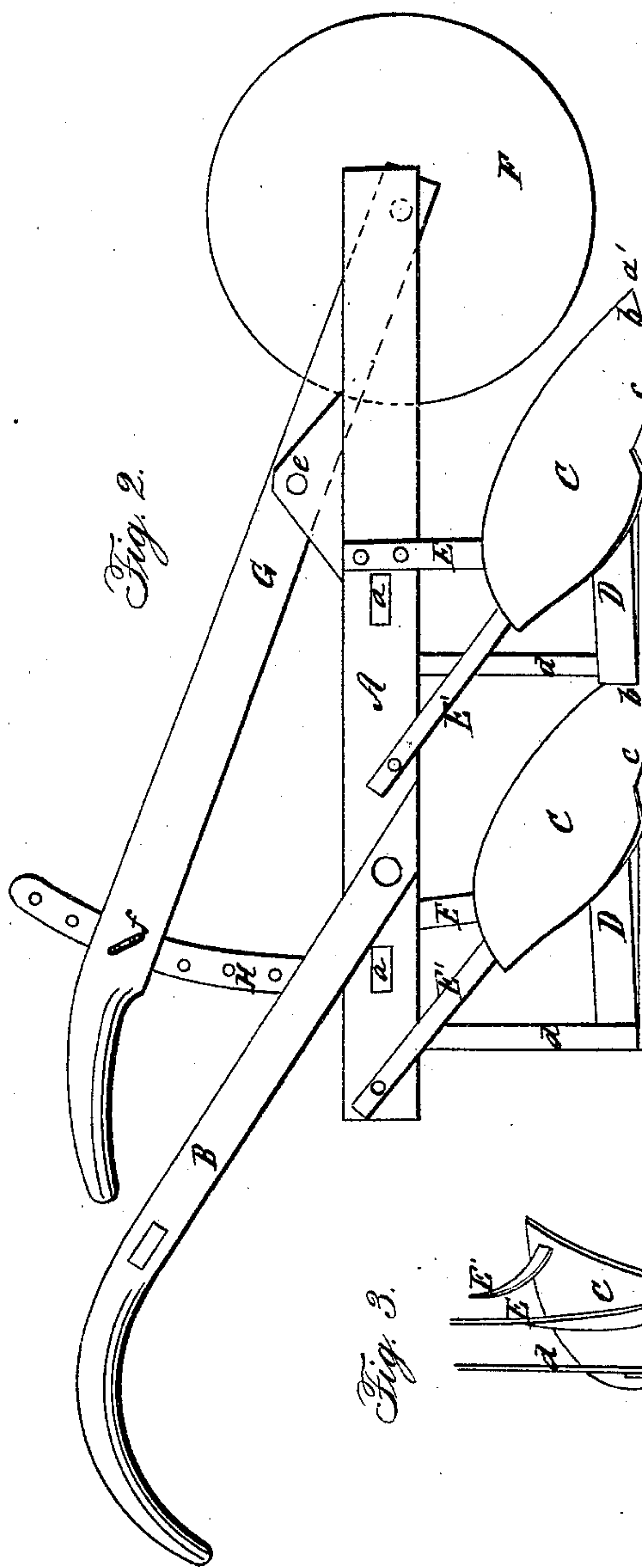


Fig. 2.

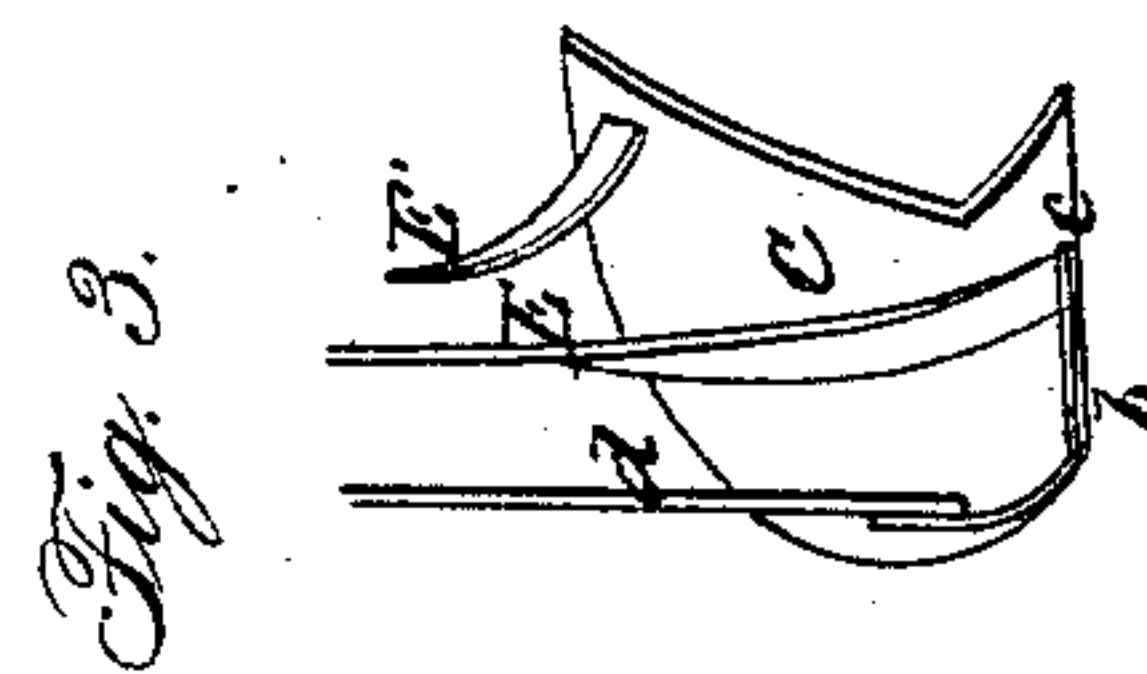


Fig. 3.

**Witnesses:**

W Coombs  
G W Reed

**Inventor:**

James Tomlinson  
per Mann & Co  
attorneys.

# UNITED STATES PATENT OFFICE.

JAMES TOMLINSON, OF RACINE, WISCONSIN.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **41,407**, dated January 26, 1864.

*To all whom it may concern:*

Be it known that I, JAMES TOMLINSON, of Racine, in the county of Racine and State of Wisconsin, have invented a new and Improved Plow; and I do hereby declare that 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 is a plan or top view of my invention; Fig. 2, a side view of the same; Fig. 3, a back view of a plow detached from the beam or framing.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in constructing the mold-board, share, and colter all in one piece, and of scoop or hollow screw form, with a point nearly in the center of the cutting part or share, as hereinafter fully shown and described, whereby the furrow-slice is cut rounding on the land side and turned over with far greater facility than by the plows of ordinary construction, the draft of the plow rendered comparatively light, and the furrow-slice, in being turned, not elevated as high as where turned by the ordinary plows, the invention at the same time being better adapted for a gang-plow than those of ordinary construction.

The invention further consists in a novel arrangement of a wheel and lever applied to the plow frame or beams in such a manner as to gage the depth of the plow or plows and enable the latter to be raised out of the ground by the plowman with the greatest facility.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A A represent two plow-beams, connected together by cross-pieces *a a*.

B B are handles of the usual form, attached one to each beam A.

C C are two plows, attached one to each beam A. These plows are both constructed in the same way or of the same form, and each has a mold-board, share, and colter, combined or formed all of one piece of metal made or cast in the form approximating to that of a scoop, hollow screw, or spiral shell, with a point, *a'*, at the center of the front part or share, *b*, of the plow, the outer or face side of the latter being concave and the upper edge gradually increasing in height from its front point, *a'*, to nearly its back end, as shown in Fig. 2. The lower part of the mold-board projects outward, like

an ordinary share, as shown at *c*, forming an inclined surface which constitutes the sole of the mold-board. The concavity of the mold-board gradually changes from its front to its back end, like a spiral shell.

D represents the landside, which is of curved form in its transverse section, as shown clearly in Fig. 3, the convex surface facing outward and corresponding in curvature to the share of the mold-board, so that the former will work or pass into the hollow of the land made by the share. The front end of the landside is attached to the back of the mold-board near its front end, and the back part of the landside is attached to a standard, *d*, the upper end of which is bolted to a beam, A, at its land side.

E is a standard, the lower end of which is attached to the mold-board and the upper end to the same beam A. This standard is about in line with the center of the mold-board and its point *a'*. E' is a brace attached to the mold-board and beam.

F represents a wheel which is fitted in a lever, G, the latter being between the two beams A A, and fitted on a fulcrum-rod, *e*. This lever G extends back nearly to the handles B, and is fitted on a perforated segment guide-rod, H D. This lever may be secured at any desired point by means of a pin, *f*, which passes through the lever and any of the perforations in the segment-rod H. The wheel F has a central position between the two plows, and its axle *e'* is a little in advance of the foremost plow, one plow being placed some distance in front of the other. By adjusting this wheel higher or lower through the medium of lever G the plows may be set so as to penetrate a greater or less distance into the earth or raised entirely out of the earth when desired. The upper edge of the mold-board forms the colter.

I do not claim the wheel H and lever G, for they have been previously used; but,

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

A plow having its mold-board, share, and colter in the form of a scoop or spiral shell and provided with a curved landside, P, substantially as set forth.

JAMES TOMLINSON.

Witnesses:

S. W. SPAFARD,  
D. McDONALD.