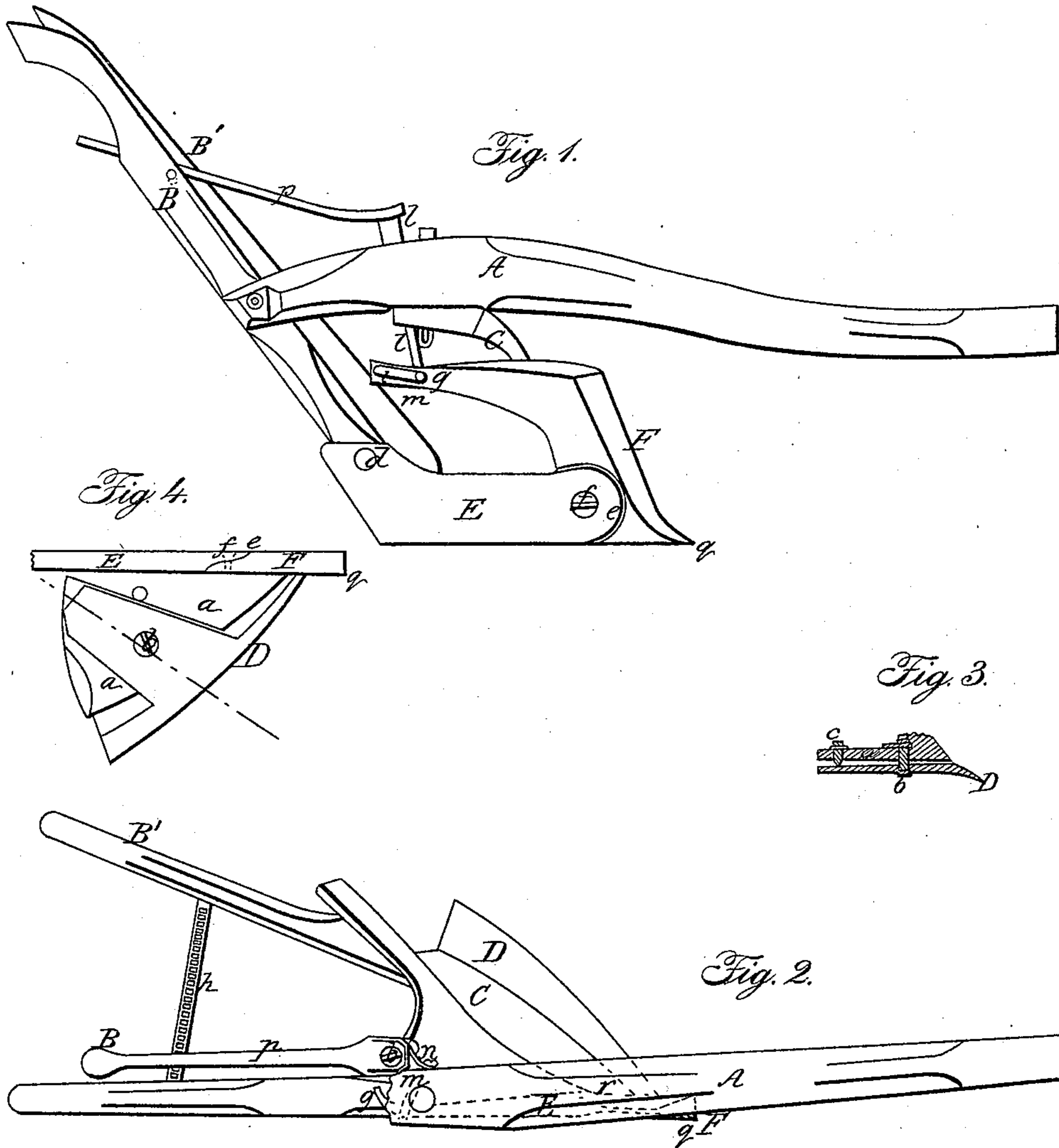


G. W. ZEIGLER.

Plow.

No. 14,989.

Patented May 27, 1856.



UNITED STATES PATENT OFFICE.

GEORGE W. ZEIGLER, OF TIFFIN CITY, OHIO.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 14,989, dated May 27, 1856.

To all whom it may concern:

Be it known that I, GEORGE W. ZEIGLER, of Tiffin City, in the county of Seneca and State of Ohio, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, forming part of this specification, in which—

Figure 1 is a landside elevation of plow. Fig. 2 is a top view. Fig. 3 is a sectional view, showing attachment and adjustment of share. Fig. 4 is an inverted view of plow.

Similar letters of reference in the several figures denote the same part.

My invention refers to the regulation of the depth of plowing by the movement of the colter-point vertically. It is designed to effect this action independent of both mold-board and share, so as not by its movement to change the form of those parts.

The nature of the invention consists in jointing the colter to the front of the landside, as will be described, so as to be movable about said front of landside, and between it and the edge of mold-board and share, by lever action upon a rear arm of the colter, as will be hereinafter set forth.

In the drawings, A is the beam; B B', the handles; C, the mold-board; D, the share; E, the landside, and F the colter.

The share is secured to a base-plate, *a*, of mold-board by bolt *b*, and is adjusted in position by set-screw *c*, as shown in Fig. 3.

The landside E is bolted to the base-plate *a* of the mold-board, a flange extending inward for that purpose, and is also secured to handle B by bolt *d*. The front extremity, *e*, of the landside is divided vertically, so as to lap upon the colter F, as shown in Figs. 1 and 4, the end of the landside being rounded, and the outside of colter hollowed to receive said front part of landside. The bolt *f*, passed through landside and colter, connects the two by a firm lap-joint, the colter being capable of movement about said bolt.

The colter is constructed with an arm, *g*, extending rearward, as shown in Fig. 1, and has

in its rear extremity an inclined slot, *i*, in which is inserted the arm *m* of the rock-shaft *l*, turning in box *n* on the side of beam A by power applied to lever *p*. This lever is held in position by notches on top of cross-bar *h*, between the handles B B'. The side *r* of colter rests against the mold-board and share, and makes with them a close joint without being in any way secured to either.

From the above description it will readily be seen that by moving lever *p* toward handle B arm *m* of shaft *l* will be moved in slot *i*, pressing against the upper face of said slot, turning the colter about bolt *f* by lifting arm *g*, and consequently depressing point *q* of the colter. The opposite movement lifts the point. This movement of the colter is altogether independent of both mold-board and share, and is effected without altering the form of either.

The mold-board, colter, and share may be constructed of any of the well-known materials used for this purpose, and the details of the other parts of the plow may be varied in many ways, so long as the invention here claimed is not affected by such alteration.

I am aware that Harrison Norton obtained a patent, dated October 9, 1855, by which he regulated the depth of the furrow by a movable plow-point acting upon the same principle as that shown in my specification. I do not claim, therefore, to have been the first to invent that method of accomplishing this object; but

What I do claim as new, and desire to secure by Letters Patent, is—

Simply an improvement upon the invention of Norton, such as is set forth in the foregoing specification—that is to say, by combining with landside and mold-board a colter, F, jointed to the landside, as described, and movable between landside and mold-board independent of the mold-board and share.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

GEORGE W. ZEIGLER.

Witnesses:

GEO. PATTEN,

JOHN S. HOLLINGSHEAD.