

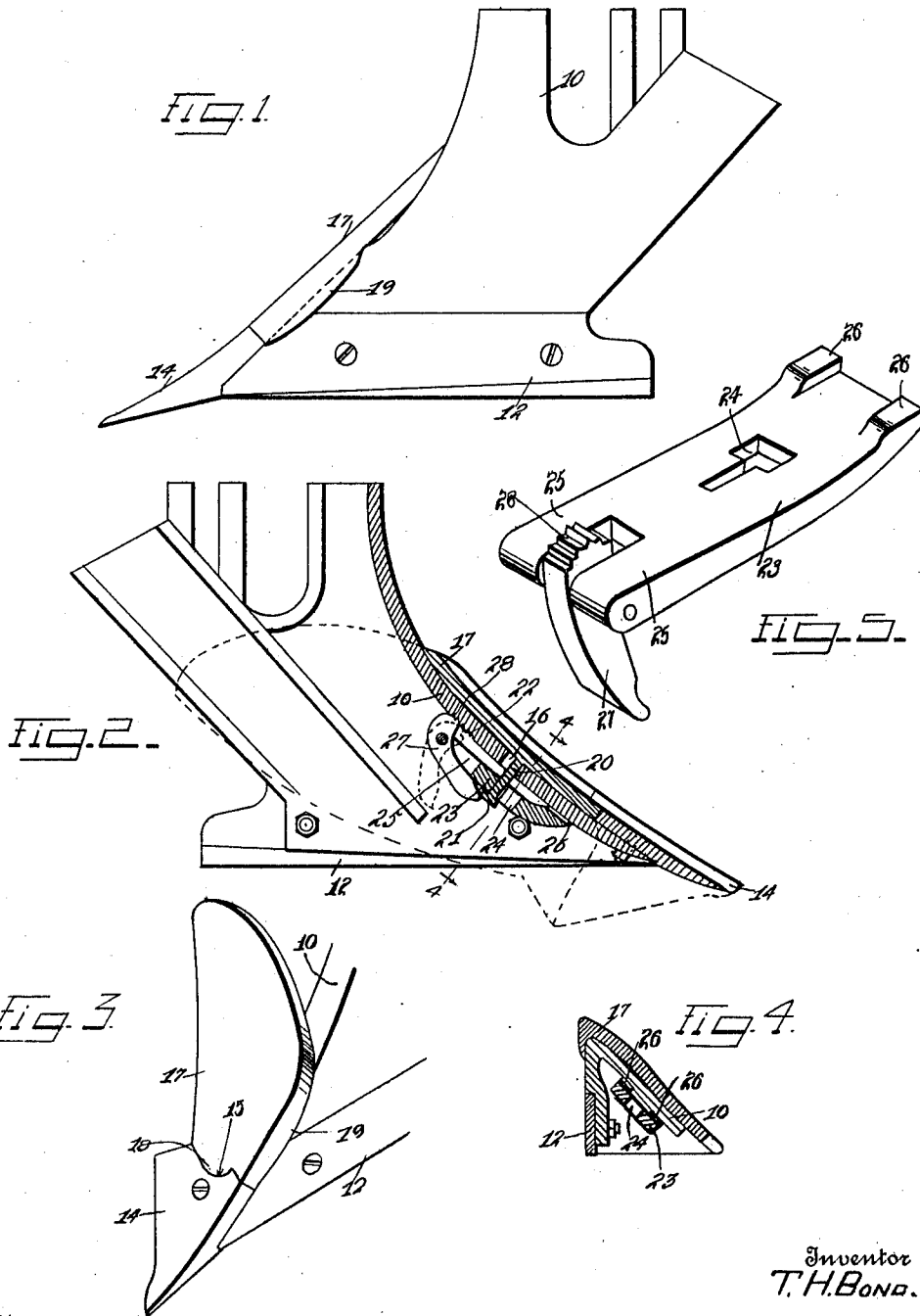
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PLOW.

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1,031,414.

Patented July 2, 1912.



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UNITED STATES PATENT OFFICE.

THOMAS H. BOND, OF BELLE VILLE, VIRGINIA.

PLOW.

1,031,414.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS H. BOND, a citizen of the United States, residing at Belle Ville, rural district, in the county of Nansemond, State of Virginia, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to plows and has special reference to a novel arrangement of means for securing a mold board on a plow standard and locking the mold board, point, and standard securely together.

One object of the invention is to provide means for securing the mold board on the plow standard in such a manner as to simultaneously lock the mold board to the standard and force the same firmly downward against the plow point.

Another object of the invention is to provide a mold board and plow point with certain interlocking means, and the mold board with a lip to coact with this interlocking means, so that said mold board is held firmly in position when forced downwardly and against the plow point.

A further object of the invention is to provide a plow of the character described which is composed of a minimum number of parts, is therefore simple in construction, and is cheap to manufacture.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim here-to appended; it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claim, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing: Figure 1 is a side elevation of a plow constructed in accordance with my invention, Fig. 2 is a vertical sectional view from the opposite side of the plow, the mold board being indicated in dotted lines, Fig. 3 is a detail perspective view of the lower portion of the standard, point and mold board, and Fig. 4 is a detail sectional view taken on the line 4-4 of Fig. 2. Fig. 5 is a perspective view of the locking plate.

Like reference numerals designate corresponding parts in all the figures of the drawing.

Referring to the drawing, 10 designates an ordinary plow standard to which is attached the usual landside 12. At the extreme forward portion of the lower end of the standard is a plow point 14, the upper edge thereof being formed with a concaved recess 15. Above the point the standard is formed with an opening 16 adapted for a purpose hereinafter to be described. Disposed upon the standard above the plow point is a mold board 17 which has its lower edge formed with a tongue 18 adapted to engage within the concaved recess 15 of the point, and thereby interlock the said parts together. The inner edge of the mold board 17 is formed with a lip 19 which extends over and engages against that side of the standard 10 and the landside 12. Projecting from the rear face of the mold board is an integral lug 20 which is provided with a head 21. This lug is adapted to extend through the opening 16 of the standard, said opening being of a size not only to permit of the head 21 passing therethrough but to permit of movements in all directions of said lug 20. Immediately above the opening 16, the underside of the standard is formed with a series of serrations 22.

In order to interlock the mold board with the point and also secure the mold board to the standard, the following locking means is employed: A curved plate 23 is provided with a key-hole slot 24, the ward portion of the slot being directed toward a forked end formed by ears 25 of the plate. Opposite the forked end, the underside of this plate is provided with spaced projections 26 which form short feet adapted to rest against the underside of said standard. Between the ears 25 there is pivoted a cam lever 27 which is so arranged that when the cam is in the position, as indicated in dotted lines in Fig. 2, the plate will be unlocked, while, when the cam is turned to the position shown in full lines in that figure, the plate will be locked. The cam portion of this lever is formed with a series of serrations 28 which are adapted to engage in the serrations 22 previously described.

In operation, when it is desired to lock the parts as above described, the lug 30 is projected through the opening 16 and the plate 23 applied over the head 21 of the lug

in such a manner that the ward end of the key-hole slot bears against said lug, the cam being in its unlocked position. Now, when the cam is turned to its locked position, the serrations on the cam and the standard engage each other, and this causes the plate 23 to be forced downward, carrying with it the mold board 17. This downward movement of the mold board causes said mold board and point to become interlocked in the manner above described. Simultaneously with this movement, the cam action necessarily lifts the upper end of the plate 23, and this plate then in turn acts as a lever and pulls the mold board firmly against the standard. By this means the mold board is locked very securely into position relative to the standard and plow point.

Having thus described the invention, what is claimed as new, is:

A plow comprising in combination, a standard, a point secured upon the standard, a mold board disposed against the standard above the point and having interlocking engagement with the latter, said standard being formed above the point with an opening, a lug projecting from the mold board

through the opening of the standard and formed with a head, and means engageable with the standard and lug for holding the mold board and point in their interlocked relation and simultaneously locking the mold board to the standard, said means comprising a curved plate having a key-hole slot formed therein adapted to be placed over the lug with the ward end of the slot uppermost and bearing against said lug, and a cam lever having a handle end projecting upward when loose and downward when locked, the cam portion of said lever and said standard each having interengaging roughened surfaces, whereby as the handle of the cam is moved from loose to locking position, the mold board will be forced downward and interlocked with the point and simultaneously drawn against and locked to the standard.

In testimony whereof, I affix my signature, in presence of two witnesses.

THOMAS H. BOND.

Witnesses:

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