(No Model.)

E. ENGLISH.

PLOW.

No. 305,066. Patented Sept. 16, 1884.

Fig. 1.

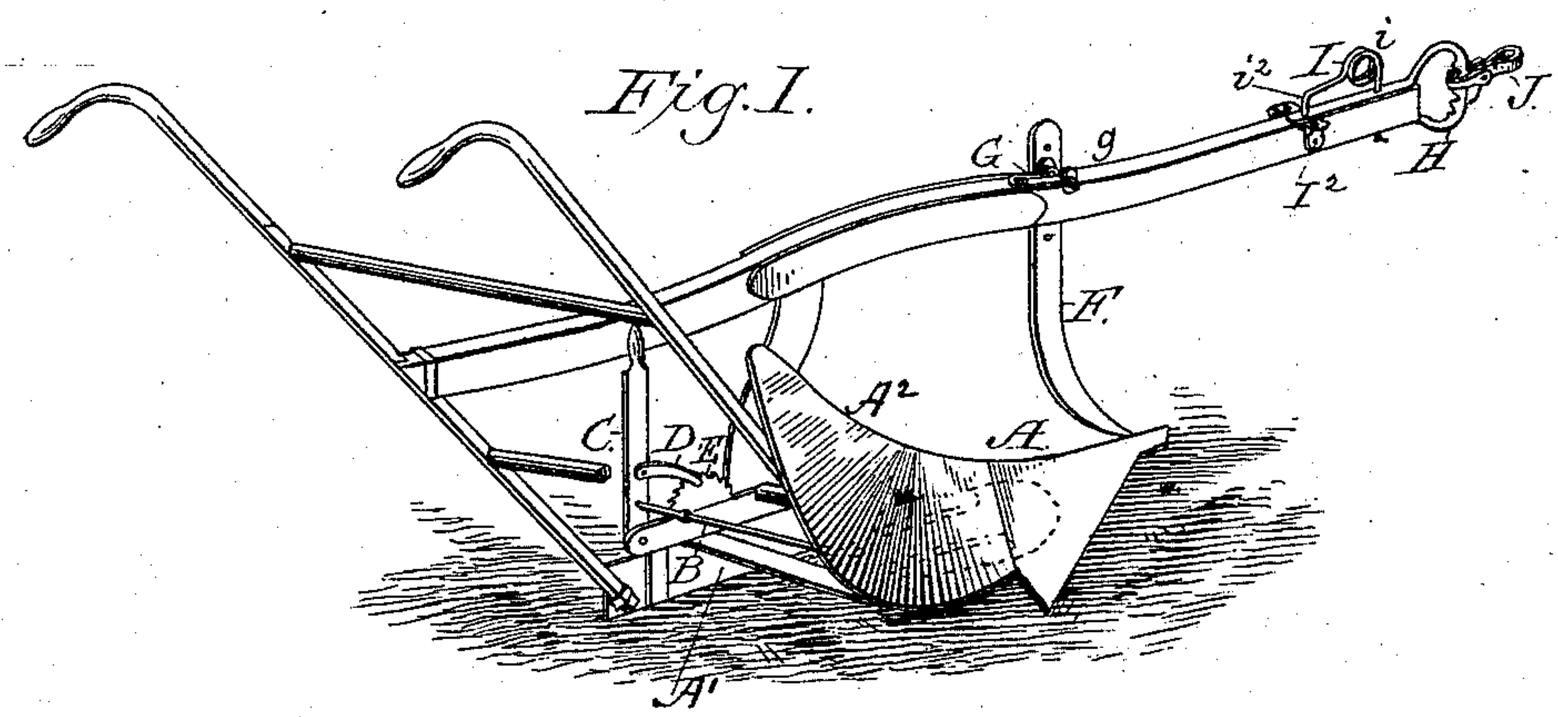


Fig. 4.

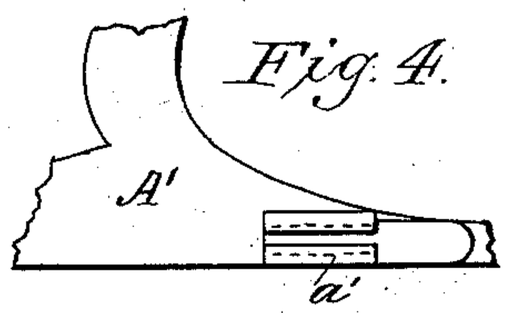


Fig. 2.

Fig. 5.

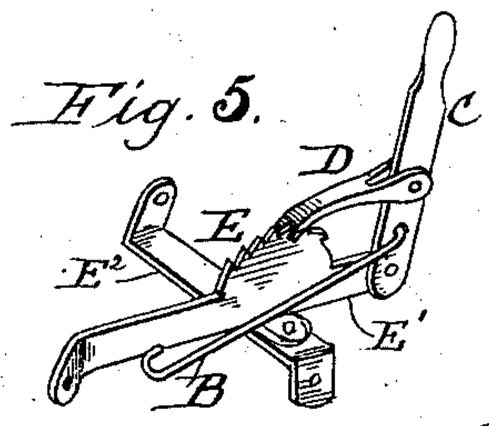
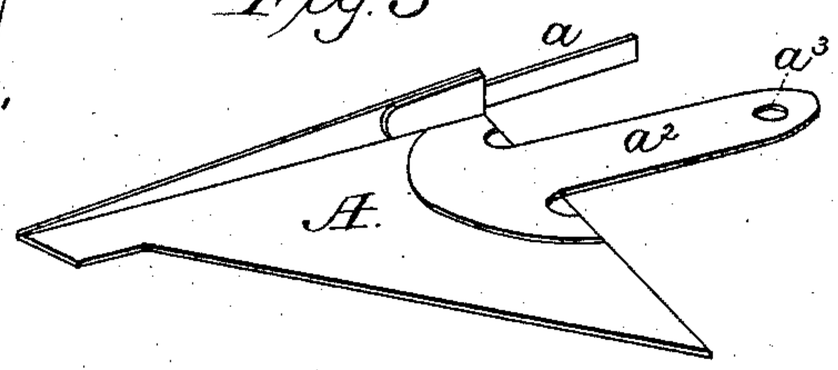


Fig. 3



Witnesses;
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UNITED STATES PATENT OFFICE.

ELI ENGLISH, OF HOOSICK FALLS, NEW YORK.

PLOW.

SPECIFICATION forming part of Letters Patent No. 305,066, dated September 16, 1884.

Application filed April 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, ELI ENGLISH, a citizen of the Province of Canada, residing at Hoosick Falls, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Plows, of which the following is a specification.

My invention relates to improvements in plows in which the various parts thereof are united with as few nut-bolts as possible, and in which the use of wrenches is in a great measure dispensed with; and my invention consists in certain details of construction hereinafter described, and specifically set forth in the claim.

In the drawings, Figure 1 is a perspective view of a plow constructed in accordance with my invention. Fig. 2 is a bottom view of the same. Fig. 3 is a perspective view showing the under side of the plow-point. Fig. 4 is a side view showing the inner side of a portion of the landside and standard of the plow. Fig. 5 is a perspective view of the longitudinal and of the transverse brace used for securing the handle to the mold-board, and also the plow-point-retaining rod, its operating-lever with its pawl in engagement with its segmental rack.

In said drawings, A represents the plow-point. It is provided with a rear extension, *a*, made to enter a recess, *a'*, formed into the landside A', and a tongue, a^2, to rest against the under side of the mold-board A^2, or between the latter and a small plate secured to the bottom thereof, and made to project under the inner end of the plow-point. The free end of the tongue a^2 is provided with an eye or opening, a^3, to receive the hooked end of a plain or jointed retaining-rod, B, and the opposite end of said rod is pivotally secured to a tension-regulating lever, C, having its lower end pivoted to a longitudinal brace, E', the forward end whereof is riveted to the rear side of the mold-board. This brace carries a segmental ratcheted rack, E, to receive the free end of the pawl D, pivoted to the regulating-lever C, whereby the plow-point is brought firmly against the forward end of the landside and mold-board, with the extension *a* and tongue a^2 within their sockets, whatever may be the length of the rod B. The lower ends of the plow-handles, and with them the rear portion of the landside and mold-board, are united by the transverse brace E^2, and upon said brace the longitudinal brace E' and its rack E are secured.

To dispense with a bolt or bolts for uniting the colter F with the plow-beam a wire spring-catch, G, is used. It is formed of a wire bent and coiled over in the middle of its length, and having one of its extremities hooked into one of the lugs of a clip, *g*, secured upon the top of the beam, while the other end of the spring passes through the opposite lug of the clip and enters one of the perforations made in the upper portion of the colter. The clevis H is also secured by means of a spring-rod, I, passing vertically through both branches thereof and through the plow-beam, and said rod is used at the same time to control the rear end of the clevis. For this purpose there is secured upon the top of the plow-beam, but under the rear end of the clevis, a clip, I^2, having a series of perforations to receive the springy end of the rod I. To give the rod I its springy quality its forward end is secured under the beam by a split key or otherwise, while directly above the beam there is formed upon said rod a double loop, *i*, and its rear end is bent down at i^2 to enter the opening in the rear end of the clevis and one of the perforations in the clip I^2. Upon the forward looped end of the clevis is placed the dog J, to which a whiffletree can be attached in the usual manner.

Having now fully described my invention, I claim—

The combination of a plow landside and mold-board, provided with recesses in the inner and under side thereof, a plow-point provided with an extension, *a*, a tongue, a^2, and a hooked rod secured to the latter, with the transverse brace E^2, the longitudinal brace E', a segmental ratchet, adjustable lever, and pawl, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

ELI ENGLISH.

Witnesses:
JOSEPH EANGLISH,
PITRE LIBERTY.