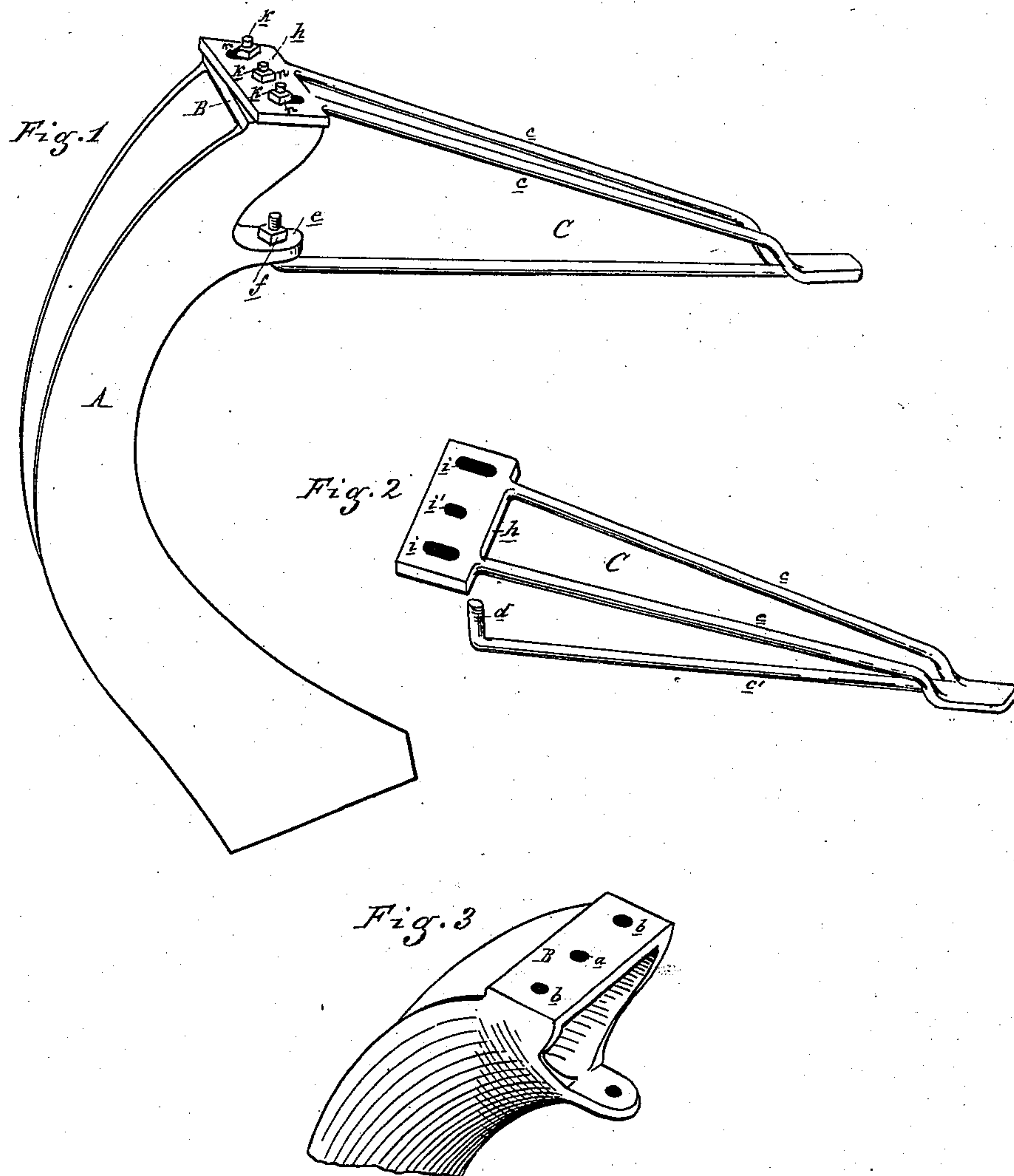


(No Model.)

J. J. ALLEY.
Plow.

No. 230,457.

Patented July 27, 1880.



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UNITED STATES PATENT OFFICE.

JOHN J. ALLEY, OF ALBION, MICHIGAN.

PLOW.

SPECIFICATION forming part of Letters Patent No. 230,457, dated July 27, 1880.

Application filed May 27, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. ALLEY, of Albion, in the county of Calhoun and State of Michigan, have invented an Improvement in
5 Plows, of which the following is a specification.

My invention relates to that class of plows known as "skeleton-beam" plows, in which the skeleton-beam is vertically and laterally ad-
10 justed as desired.

The invention consists in the peculiar construction and combination of the various parts by means of which the necessary adjustabilities are obtained by means more simple and
15 less expensive than those usually employed for the purpose.

Figure 1 is a perspective view of a cast-iron plow-standard and adjustable skeleton-beam. Fig. 2 is a detached view of the skeleton-beam; and Fig. 3, a detached view of the upper part
20 of the standard.

Like letters refer to like parts in each figure.

In the accompanying drawings, A represents a plow-standard, to which to secure the
25 landside and mold-board. The upper end of this standard terminates in a flat transverse plate, B, the upper face of which is smooth, in contradistinction to plates for a similar purpose the upper faces of which are corrugated.
30 At the center of this plate is a bolt-hole, *a*, and on either side thereof, and at equal distances from the center hole, are other bolt-holes, *b*, through said plate.

C represents a skeleton-beam made of the two upper rods, *c*, and the lower rod, *c'*, terminating in a bend, *d*, at right angles to itself, the bend engaging with the lug *e* of the standard, to which it is secured by the nut *f* engaging
40 with the threaded end of the bend. These rods are secured together at their front and converging ends in any suitable manner. The upper two rods, *c*, terminate at their rear ends in a flat smooth plate, *h*, through which, and
45 coincident when the parts are in place, are the slots *i i* and *i'*. The two former are about twice the length of the latter, and are designed, when the bolts *k* are in place, to allow of the lateral adjustment of the beam, the center bolt acting as the pivot-bolt for that purpose.
50

When it is desired to change the pitch of the front end of the beam, all the nuts *n*, securing the plates B *h* together, are loosened, when the beam, at its front end, may be elevated or depressed by so much as the length
55 of the slot *i'* will allow. This slot is shorter than its fellows, for the reason that if of the same length the adjustment of the pitch would be allowed too great latitude, and by carelessness or want of knowledge on the part of the
60 operator require several adjustments before the right pitch is obtained. To obviate this the length of the slot *i'* is graduated, so that the extent of the pitch above or below the central line is controlled by the length of the cen-
65 tral slot.

I am aware that a skeleton plow-beam composed of three or more draft-rods welded or otherwise fastened together at their front ends and having their rear ends threaded and passing
70 through holes in a vertical plate at the top of the plow-standard, and adjustably attached to said plate by means of nuts on said rods, whereby the skeleton-beam may be adjusted laterally and vertically, has heretofore been
75 employed, and I therefore lay no claim, broadly, to such construction, my invention being confined to the particular devices whereby the skeleton-beam may be vertically and laterally
80 adjusted, as pointed out in the claim.

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

The combination, with the plow-standard A, provided at its upper end with the smooth flat plate B, having bolt-holes *b a b*, of the skeleton-beam *c c c'*, having the smooth plate *h* resting on the plate B, and provided with the parallel transverse slots *i i i'*, the latter slot, *i'*, being shorter than the former slots, bolts *k*, and fastening-nuts *w*, whereby the plate of the
85 skeleton-beam is adapted to be moved circularly on its central bolt and also endwise on the same, to adjust the draft-rods laterally and vertically, as described.
90

JOHN J. ALLEY.

Witnesses:

H. S. SPRAGUE,
EDWARD A. LANE.