

No. 846,643.

PATENTED MAR. 12, 1907.

G. BISHOP.
GANG PLOW.

APPLICATION FILED MAR. 28, 1906.

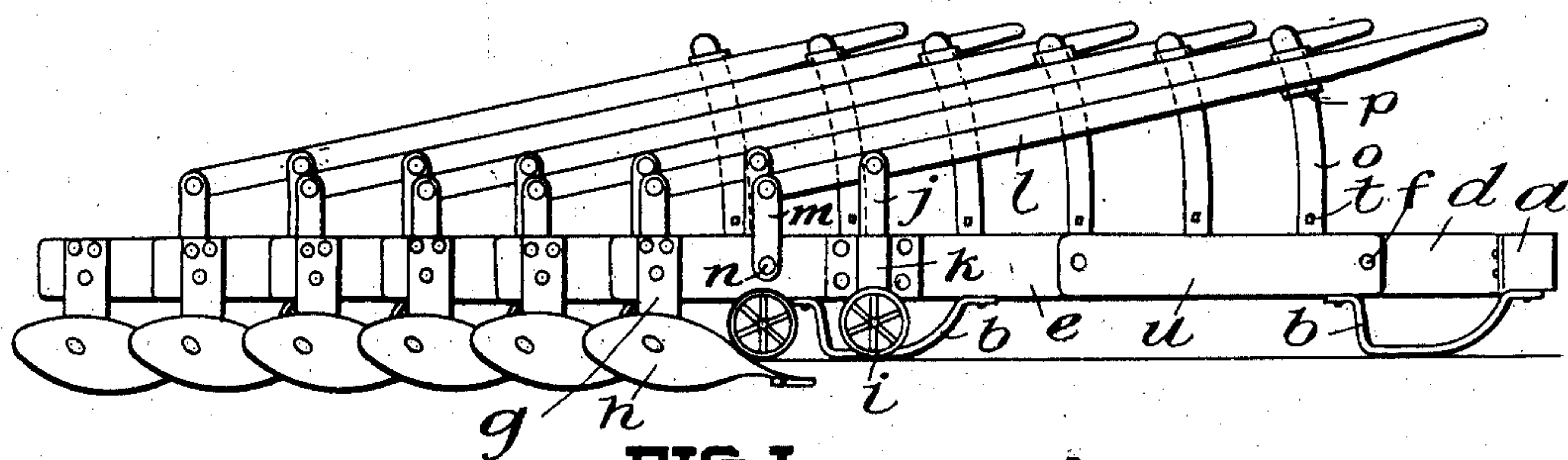


FIG. 1.

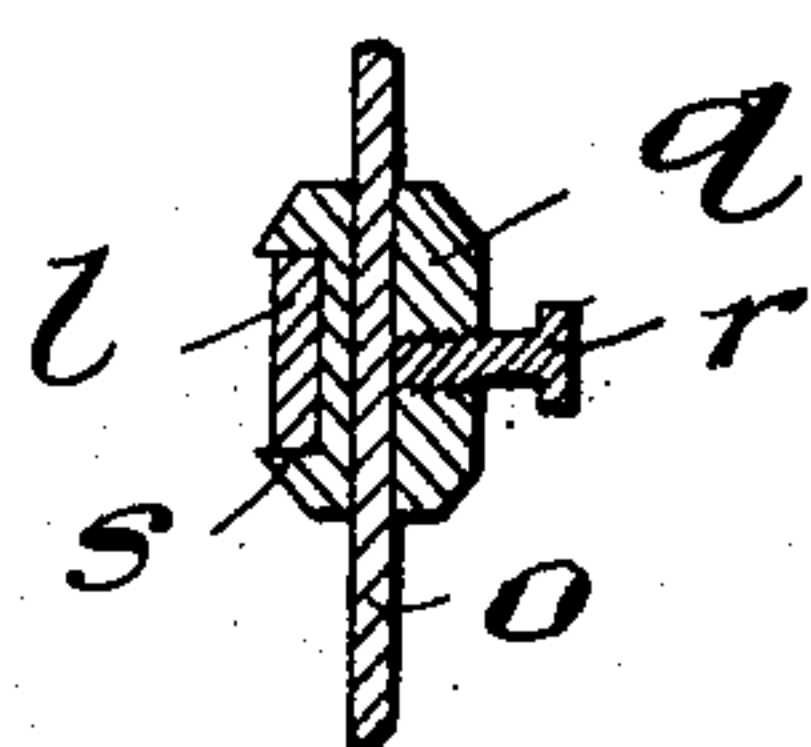


FIG. 3.

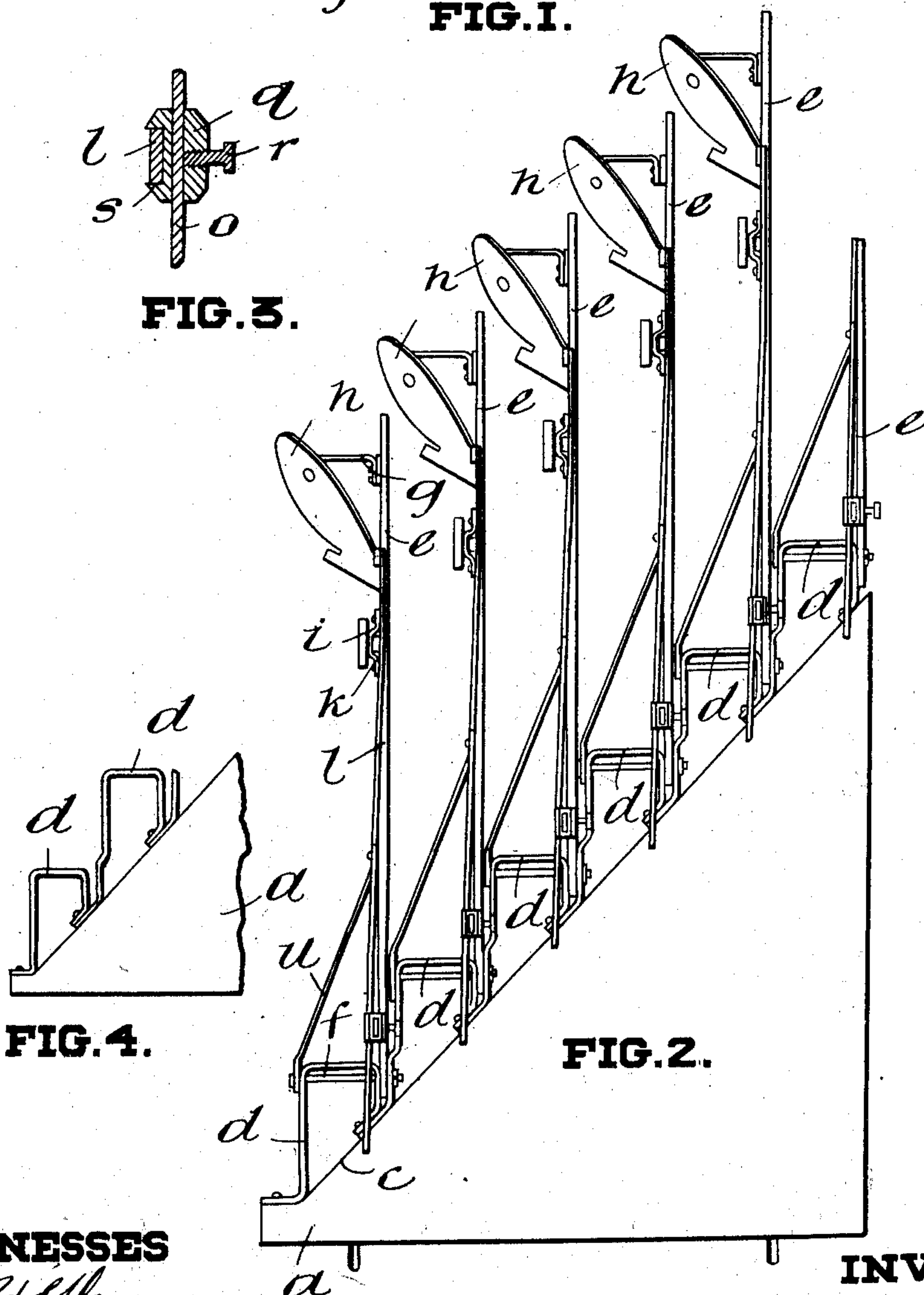


FIG. 2.

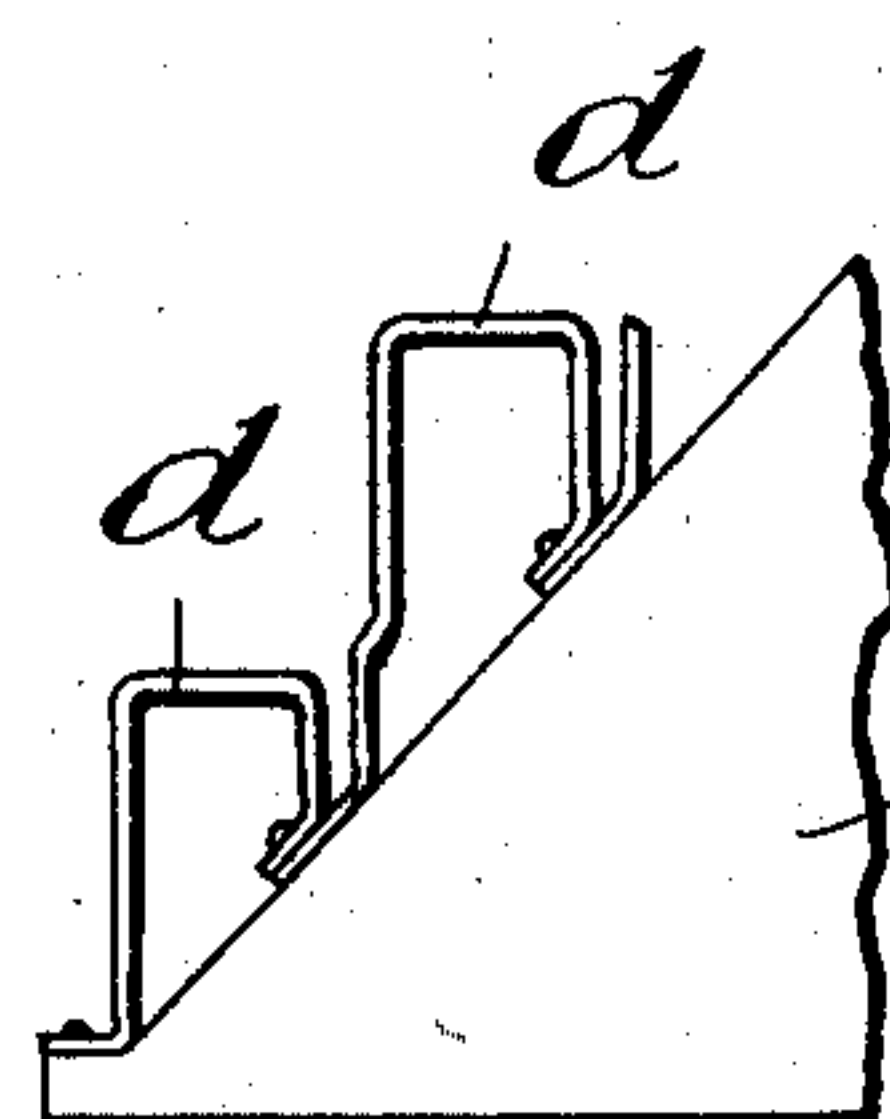


FIG. 4.

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GEORGE BISHOP, OF OXBOW, SASKATCHEWAN, CANADA.

GANG-PLOW.

No. 846,643.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed March 28, 1906, Serial No. 308,573.

To all whom it may concern:

Be it known that I, GEORGE BISHOP, of Oxbow, in the Province of Saskatchewan, Dominion of Canada, blacksmith, have in-
5 vented certain new and useful Improvements in Gang-Plows, of which the following is a specification.

My invention relates to improvements in gang-plows; and the objects of my invention are to provide a simple but efficient form of gang-plov in which perfect freedom of ac-
10 tion of each plow may be maintained and in which the depth of cut of each plow may be independently adjusted; and it consists, es-
15 sentially, of a horizontal frame provided with an inclined back portion having a plurality of rearwardly-extending plow-beams pivoted to lugs perpendicular to them, a plurality of plows secured to said beams, gage-wheels
20 supported from standards slidably held in said plow-beams, levers for adjusting said gage-wheels, and means for holding the levers in any adjusted position, the various parts of the device being constructed and
25 arranged in detail as hereinafter more particularly described.

Figure 1 is a side view of my plow. Fig. 2 is a plan view of the same. Fig. 3 is an enlarged sectional detail showing one of the
30 adjustable stops for holding the levers in position. Fig. 4 is a detail of the connecting-lugs secured to the inclined back of the frame.

In the drawings like letters of reference
35 indicate corresponding parts in each figure.

a is the frame, which is supported from the ground in substantially horizontal position by means of a plurality of runners *b* or by other suitable means. The frame as shown
40 is made triangular in form, and the inclined rear surface *c* has secured thereto a plurality of lugs *d*, to which a plurality of rearwardly-extending plow-beams *e* are pivoted. These lugs are substantially D-shaped, as shown,
45 having the rear portion parallel to the front of the frame and the side portions parallel to the direction of movement of the plow and extending in a substantially vertical plane. The plow-beams are pivoted between the
50 lugs by means of bolts *f*, extending through both sides of one lug and through one side of the adjacent lug, thus forming a perfectly square hinge and causing a perpendicular action to be given to each plow-beam. To
55 further secure and hold the plow-beams in position, I provide a plurality of braces *u*,

secured to each plow-beam and pivoted to the lug *d*. These prevent any swaying of the plow-beam.

From the end of each plow-beam a stand-
60 ard *g* is secured and extends downwardly, having a plow-blade *h* secured at its lower end. The plow-beams being all of the same length and the back of the frame being in-
65 clined will cause the plow-blades to be arranged in a direction oblique to the front of the frame.

i are a plurality of gage-wheels secured to standards *j*, which are slidably secured to the plow-beams, preferably by means of straps *k*.
70 To the top of each of the standards *j* a lever *l* is pivoted, one end of which is pivoted to an arm *m*, the opposite ends of which are pivoted at *n* to the plow-beams. This lever ex-
75 tends forwardly and is adapted to be operated from the frame of the plow. To hold the lever in any adjusted position, arc-shaped arms *o* are secured to the plow-beams, having thereon adjustable stops *p*. These adjust-
80 able stops comprise blocks *q*, inclosing the arms and being held in any adjusted position by means of thumb-screws *r*, a recess *s* being
85 provided on one side of the blocks, into which the lever *l* fits. These blocks are preferably used for holding the lever in its uppermost po-
90 sition and when the plow is in operation, and I also provide fixed stops *t* at the lower end of the arm to hold the lever in its lower position.

In the drawings I have shown the levers in their uppermost position—that is, with the
90 plows in their lowest position adapted to engage the ground. The gage-wheels *i* will then determine the depth of the cut that shall be taken by each plow. When it is desired
95 to raise a plow out of the ground, the lever controlling it is depressed and placed in engagement with the lower stop *t*. This moves the gage-wheel downwardly until it engages
100 the ground, after which continued depression of the lever will raise the plow up. By this means each plow is independently ad-
105 justable. The adjustable stop *p* for each of the levers enables the plow to be conveniently adjusted for different kinds of soil, as before commencing any particular piece of
110 plowing all the stops may be so set that the depth of cut taken shall be exactly that required. In my device the arrangement of the lugs *d*, between which the plow-beams are secured, insures that the plow-beams shall
115 be held in position with a maximum amount of rigidity.

While I have described with great particularity of detail one specific embodiment of my invention, yet it is not to be understood therefrom that my invention is limited thereto, as considerable changes might be made in the details thereof without materially departing from the spirit of my invention.

What I claim as my invention is—

1. In a gang-plow the combination with the frame of rearwardly-extending beams pivoted to the same, plows secured thereto, gage-wheels, standards supporting the gage-wheels and slidably supported on each beam, levers for raising and lowering the gage-wheels, arc-shaped arms secured to the beams, sliding blocks on the arms having therein slots into which the levers fit and thumb-screws for retaining said slots in any adjusted position as and for the purpose specified.

2. In a gang-plow the combination with the frame of a plurality of D-shaped lugs secured to the rear thereof, a plurality of flat plow-beams extending between said lugs and pivoted thereto, the flat side of the beams lying in a vertical plane and pivoting means extending through each pair of lugs and the plow-beams between as and for the purpose specified.

3. In a plow the combination with the triangular frame having the rear portion thereof obliquely inclined of a plurality of D-shaped lugs secured to the oblique rear portion having the rear parts thereof parallel to the front of the plow and the side portions flat and extending in a vertical plane, plow-beams extending between the lugs and pivoting means extending through the plow-beams, through both sides of one lug and through one side of the adjacent lug whereby a perpendicular action is given to the plow-beams as and for the purpose specified.

4. In a gang-plow the combination with the frame of a plurality of D-shaped lugs secured to the rear portion thereof having the rear portions thereof parallel to the front of the frame, and the side portions formed flat and extending in a substantially vertical plane and a plurality of plow-beams pivoted between the lugs as and for the purpose specified.

Signed at Oxbow, Province of Saskatchewan, this 10th day of March, 1906.

GEORGE BISHOP.

Witnesses:

JAMES D. MURPHY,
HUGH C. MACCOLL.