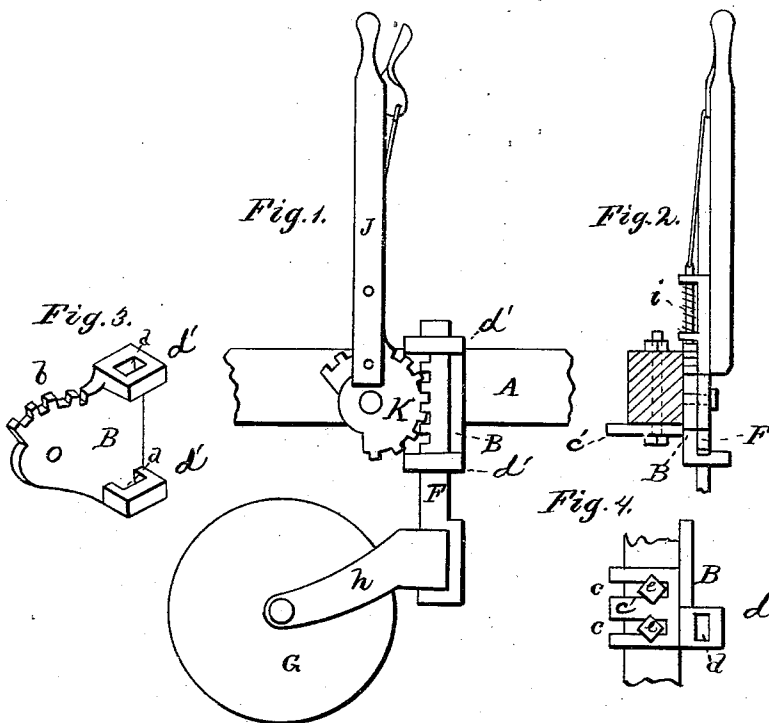


J. & G. ARMSTRONG.

Plow-Colters.

No. 148,915

Patented March 24, 1874.



Witnesses:

H. B. DuRamel
Thomas. Byrne

Inventor:

James. Armstrong.
George. Armstrong.
Per H. S. Abbott.
Attorney.

UNITED STATES PATENT OFFICE.

JAMES ARMSTRONG AND GEORGE ARMSTRONG, OF ELMIRA, ILLINOIS.

IMPROVEMENT IN PLOW-COLTERS.

Specification forming part of Letters Patent No. **148,915**, dated March 24, 1874; application filed December 22, 1873.

To all whom it may concern:

Be it known that we, JAMES ARMSTRONG and GEORGE ARMSTRONG, of Elmira, in the county of Stark and State of Illinois, have invented certain new and useful Improvements in Plow-Colters, of which the following is a specification:

Our invention relates to certain improvements on that for which Letters Patent No. 130,177 were granted to us August 6, 1872; and it consists in a casting attached to the under side of a plow-beam by means of bolts passing through slots, so as to allow of lateral adjustment, the toothed bar of a colter being raised and lowered by means of a hand-lever attached to a toothed segment pivoted to said casting, and operated by the driver, and said casting being provided with notches for engagement with a spring-bolt on said lever, whereby the driver is enabled to instantly raise and lower the colter without leaving his seat.

In the accompanying drawing, Figure 1 is a side elevation of our improvement. Fig. 2 is a rear view. Fig. 3 is a perspective view of the casting. Fig. 4 is a bottom view thereof.

A represents a plow-beam of any suitable construction. B is a casting formed with a horizontal base, *c'*, corresponding with the under side of the plow-beam, and a vertical base, corresponding with one of the vertical sides of said beam. The horizontal portion is formed with slots *c c*, and the vertical portion with guides *d' d'* and guide-holes *d d*. The casting is secured to the beam by bolts *e e* passing through the slots *c c*, by which means the

casting may be adjusted laterally of the plow-beam. Working vertically in the guide-holes *d d* is a toothed bar, F, to the lower portion of which a caster-colter, G, is attached by means of an arm, *h*, so as to admit of a swivel motion. Pivoted to the casting B is a toothed segment or curved plate, K, to which is attached a hand-lever, J, extending upward within reach of the driver, and provided with a spring-bolt, *i*, which engages with notches *b* on the upper edge of the casting B.

By moving the lever J backward or forward, the driver is enabled to instantly raise or lower the colter when desired without leaving his seat. By means of the slots *c c* in the casting B, the colter may be readily moved to the right or left to take in more or less width of land, as desired.

We claim as new, and desire to secure by Letters Patent—

1. The casting B, provided with notched edge *b*, guides *d' d'*, and a slotted base, *c'*, substantially as shown and described, for readily adjusting the colter.

2. The subject-matter of the foregoing claim, in combination with the segmental lever J K and colter F *h* G, substantially as shown and described.

In testimony that we claim the foregoing as our invention we hereunto affix our signatures this 17th day of December, 1873.

JAMES ARMSTRONG.
GEORGE ARMSTRONG.

Witnesses:

DAVID J. WALKER,
JAMES H. MILLER.