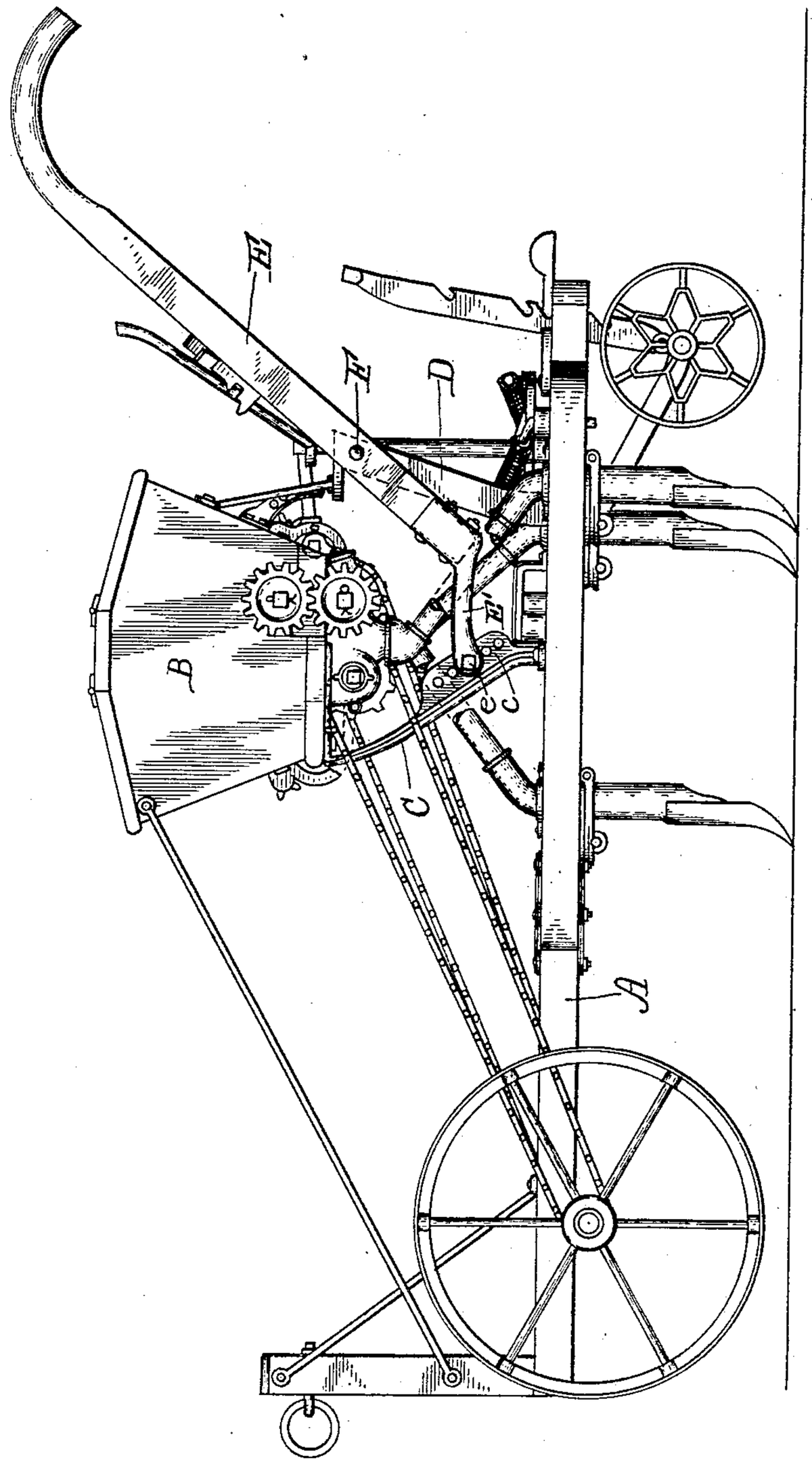
No. 713,335. Patented Nov. 11, 1902.

A. N. NORRIS.

GRAIN DRILL.

(Application filed Sept. 26, 1902.)

(No Model.)



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UNITED STATES PATENT OFFICE.

ALBERT N. NORRIS, OF RUSHVILLE, INDIANA.

GRAIN-DRILL.

SPECIFICATION forming part of Letters Patent No. 713,335, dated November 11, 1902.

Application filed September 26, 1902. Serial No. 124,947. (No model.)

To all whom it may concern:

Be it known that I, ALBERT N. NORRIS, a citizen of the United States, residing at Rushville, in the county of Rush and State of Indiana, have invented certain new and useful Improvements in Grain-Drills, of which the following is a specification.

The object of my present invention is to provide a convenient and economical means of adjustably attaching the handles to walking-drills, as will be hereinafter more particularly described and claimed.

The accompanying drawing, which is made a part hereof, is a side elevation of a machine or implement of the character in question provided with handles constructed and attached in accordance with my said invention, certain parts being broken away to show the attachment of the handles more clearly.

In said drawing the portion marked A represents the framework of the machine; B, the grain-box; C, a standard serving as one of the supports to said box; D, a standard pivotally supporting the handles and also the shifting device for the wings of the frame; E, the handles, and F the pivot-rod connecting said standard and said handles.

The standard C has a flange *c*, with several perforations therein, as shown. The handle E is mounted by means of the pivot-rod F on the standard D and has at the lower end an arm E′, which extends forward and is adapted to be secured to the flange *c* on the standard C by a bolt *e*, which passes through one of the holes in said flange. Said flange is of a segmental shape, and the holes therein are all equally distant from the pivot-rod F. The outer ends of the handles can thus be adjusted to any height desired by simply shifting the bolt *e* from one of the holes in the flange *c* to another. The handle is thus carried upon parts which also serve other purposes, which makes the mounting thereof economical and is easily and quickly adjusted to any desired position.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, in a drill, of the framework, the seedbox, a standard extending from said framework to said seedbox, a second standard extending up from said framework, handles pivotally mounted on said last-named standard, an arm extending forward from the lower ends of said handles to a point adjacent to the first-named standard, a segmental flange on said standard containing a plurality of holes, and a bolt connecting the arm on the handles to said flange, the connection being adjustable by shifting said bolt from one hole to another, substantially as shown and described.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 23d day of September, A. D. 1902.

ALBERT N. NORRIS. [L. S.]

Witnesses:
CHESTER BRADFORD,
JAMES A. WALSH.