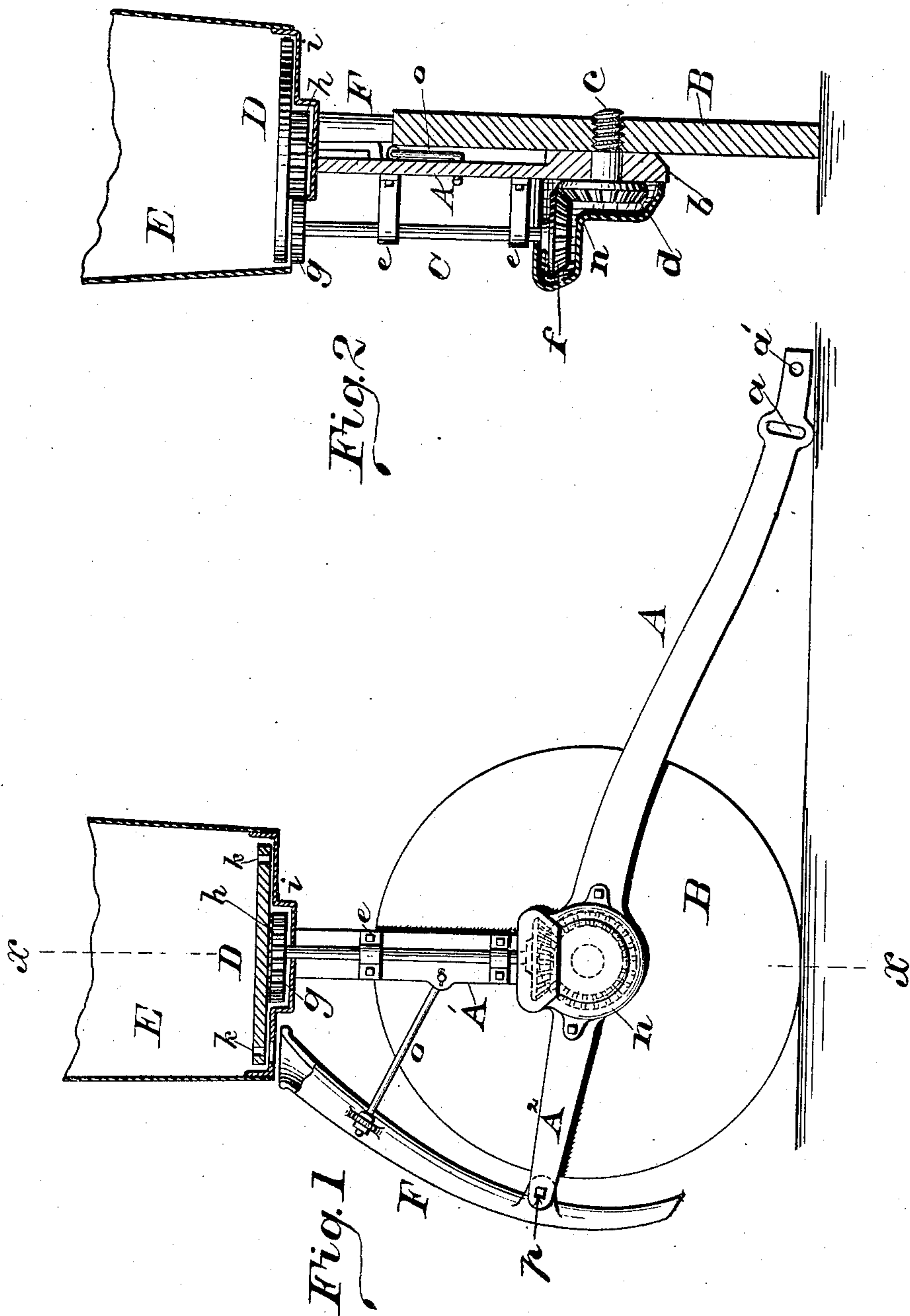


(No Model.)

W. D. LINDSLEY.
ATTACHMENT FOR PLOWS.

No. 256,804.

Patented Apr. 18, 1882.



WITNESSES:

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WILLIAM D. LINDSLEY, OF RENO COUNTY, KANSAS.

ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 256,804, dated April 18, 1882.

Application filed September 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. LINDSLEY, a citizen of the United States of America, residing in the county of Reno and State of Kansas, have invented certain new and useful Improvements in Attachments for Sulky-Plows and Walking-Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a simple and inexpensive mechanism for planting corn or other grain at any desired depth, which device is so arranged that it may be conveniently attached to any sulky or "Lister" plow.

To this end my invention consists in a driving-wheel and side bar or bars provided with suitable gearing for operating the seed-dropping disk, in combination with a hopper and grain-spout, as will be hereinafter more fully described.

In the accompanying drawings, Figure 1 is a side elevation of a machine embodying my invention, shown partly in section; and Fig. 2, a vertical sectional view on line *x x* of Fig. 1.

A represents a side bar constructed in a single piece, and having the arms *A'* and *A²* nearly at right angles to each other, as shown in Fig. 1 of drawings, and provided at one end with the vertical slot *a* and *a'* for the bolts, by which it is attached to the upright beam of a plow. The slot *a* allows the plow to be adjusted at different angles.

At the junction of the arms *A'* and *A²* the side bar, A, is provided with a hub, *b*, which forms a bearing for the driving-wheel B. Through said hub *b* passes a shank or shaft, *c*, of a beveled-gear wheel, *d*, one end of which is screw-threaded and screws rigidly into a corresponding hole at the center of the driving-wheel B.

Secured to the arm *A'* of side bar by means of the brackets *e e* is the shaft C, provided at its lower end with a beveled gear, *f*, which meshes or gears with beveled-gear wheel *d*, secured to driving-wheel B in the manner above described.

To the upper end of the shaft *c* is secured the spur-gear *g*, which gears with a cogged

wheel, *h*, made fast on the under side of a circular revolving disk, D, which is provided near its periphery with the apertures *k* for the passage of the corn or other grain to the grain-spout F. The disk D revolves or turns in a box, *i*, which is secured to the vertical arm *A'* of side bar, A. The box *i* is further fastened to and forms the bottom of the hopper E, said hopper E being by this means supported above the driving-wheel B, as shown in Fig. 2 of drawings. The grain-spout F, leading from the hopper E, passes behind the wheel B, and is supported by the arm *A²* of side bar, A, to which it is secured by the bolt *p*, or in any other suitable manner. It is further supplied with a brace, *o*, as shown, by which arrangement the box *i* and grain-spout F, although separated, always maintain the same relative positions.

Around the bevel-gears *f* and *d* is a cover or shield, *n*, secured to the side bar, A, and fitting close against the hub *b* of said side bar, thus completely shielding the gears from dirt which might be thrown up by the wheel B.

The operation of these devices is as follows: The wheel B as it revolves turns the bevel-wheel *d*, which revolves the bevel-gear wheel *f* and shaft C. The spur-wheel *g*, meshing with pinion *h*, rotates the disk D, the corn or other grain falling through the holes *k* into the spout F.

It is evident that two side bars may be used, if desired, without departing from the spirit of my invention, in which case the driving-wheel may be placed between them and the same dropping mechanism may be attached to either side bar.

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

In a planting attachment for cultivators, the combination, with the hopper E and side bar, A, having arms *A'* *A²*, and wheel B, provided with gear *d*, of the perforated box *i*, attached to the lower part of the hopper, revolving disk D, having apertures *k* and gear *h*, vertical shaft C, having gears *f* *g*, and the grain-spout F, all substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM D. LINDSLEY.

Witnesses:

D. J. FAIR,
H. S. GOSS.