

J. E. Fletcher,

Grain Drill.

No. 111,050.

Patented Jan. 17, 1871.

Fig. 1.

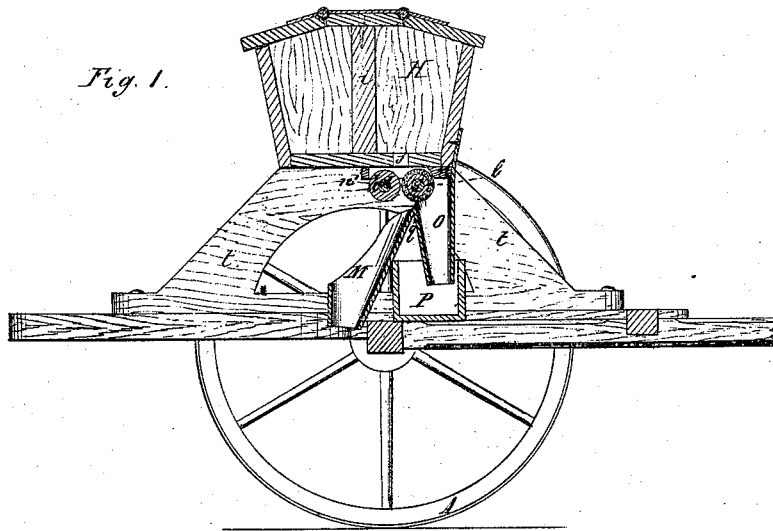
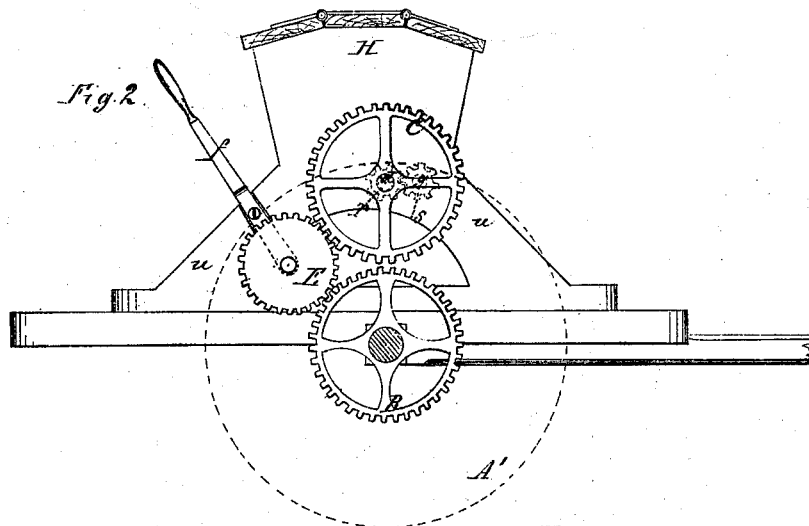


Fig. 2.



Witnesses:
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United States Patent Office.

JOHN E. FLETCHER, OF RECTORTOWN, VIRGINIA.

Letters Patent No. 111,050, dated January 17, 1871.

IMPROVEMENT IN SEED-DRILLS AND COCKLE-SEPARATORS COMBINED.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it Known that I, JOHN E. FLETCHER, of Rector-town, in the county of Fauquier and State of Virginia, have invented a new and useful improved Seed-Drill and Cockle-Separator Combined; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a transverse vertical section.

Figure 2 is a side view, the dotted lines representing the driving-wheel.

This invention relates to an improved combined seed-drill and cockle-separator, and consists in the peculiar construction and arrangement of certain parts of the machine, as hereinafter generally described, and as specifically stated in the claim.

In the drawing, the right hand is the front of the seed-drill.

A A' are the draft-wheels, A' being the driving-wheel, to which the gearing-wheel B is secured on the inside.

C is a gear-wheel attached to the end of the rear shaft *d*.

E is a connecting-wheel, having its axis near the end of lever *f*, and can be thrown in and out of gear, at pleasure, by the lever *f*.

Motion is communicated, from the rear shaft *d* to the front shaft *g*, through the pinions *r* and *s*.

The shafts *d* and *g* have their bearings in the supports *t* and *u*, and the pinions *r* and *s* are placed on the inside of the support *u*, while the wheel C is on the outside of the same support.

H is the seed-box, which is divided longitudinally by the partition *i* into two chambers, the seed being fed through discharge-orifices *j* in the front chamber, to the rollers *k* and *l*, where it is separated, the grain

falling, by its own weight, into the seed-conductors M, and thence to the ground, while the cockle clings to the elastic covering on the rollers *l* until it is scraped off by the inner edges *x* of the metallic plates *n*, whence it passes through the cockle-conductors O into the trough P, from which it can be removed at pleasure. The rear chamber in the seed-box is used as a reserve-chamber.

The seed-conductors M and cockle-conductors O are fastened together at *q*, and the conductors O attached to the front of the seed-box H, so as to be removed when necessary to empty the cockle from the trough P, which are made to fit the rollers snugly, so that they shall form scrapers for the front ones to the end of removing the cockle which may adhere to their peripheries.

They also serve the additional purpose of keeping both sets of rollers in place on their shafts, rendering other modes of fastening of said rollers unnecessary.

Having thus described my invention,

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

1. The metal frames *n n*, constructed and arranged as shown and described, whereby they perform the double function of scraping the peripheries of the front rollers *l l*, and of retaining both sets of rollers in place on the shafts *d* and *g*, as specified.

2. The improved seed-drill and cockle-separator, herein described, consisting of the seed-box H *i*, the metal scraper-frame *n*, rollers *k l*, seed-discharge spout M, cockle-spout O, trough P, pinions *r* and *s*, gears B C, shifting-gear E, and lever *f*, all constructed and arranged as shown and described.

JNO. E. FLETCHER.

Witnesses:

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