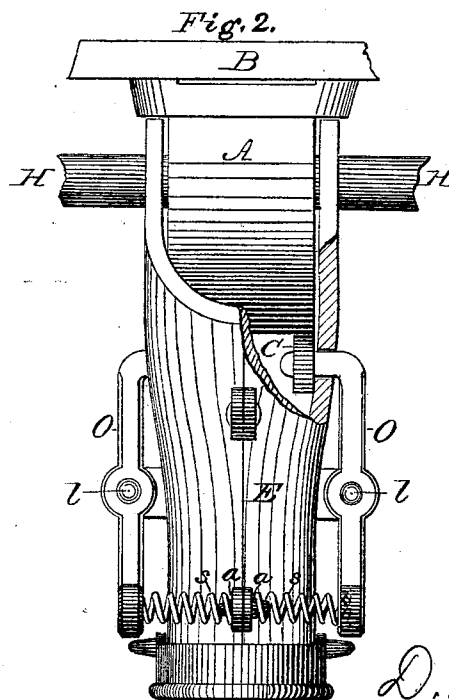
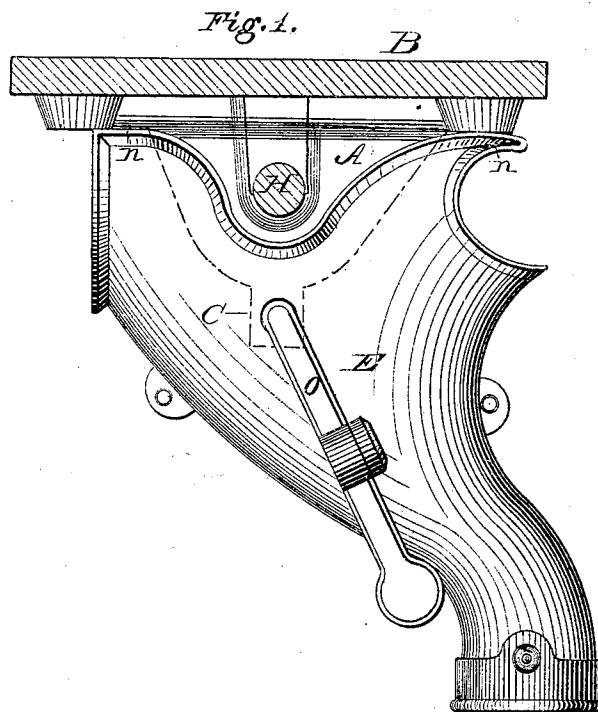


D. E. McSHERRY.
Grain-Drills.

No. 150,340.

Patented April 28, 1874.



Witnesses:

H. H. Dodge.

C. F. Murdoch

Inventor:

D. E. McSherry
by Dodge & Son
Atty.

UNITED STATES PATENT OFFICE.

DANIEL E. MCSHERRY, OF DAYTON, OHIO.

IMPROVEMENT IN GRAIN-DRILLS.

Specification forming part of Letters Patent No. **150,340**, dated April 23, 1874; application filed March 23, 1874.

To all whom it may concern:

Be it known that I, DANIEL E. MCSHERRY, of Dayton, in the county of Montgomery and State of Ohio, have invented certain Improvements in Grain-Drills, of which the following is a specification:

My invention relates to grain-drills; and consists in a novel manner of attaching the receivers or grain-conductors to the feed-cups, as hereinafter more fully explained, the device being an improvement on those patented by me January 24, 1871, numbered 111,132, and July 18, 1871, numbered 117,191.

Figure 1 is a side view of my improved device, showing the receiver or grain-conductor attached to the feed-cup, the form of said cup being shown in dotted lines. Fig. 2 is a face view, a portion being broken away to show more clearly the operation of the parts.

The receivers or grain-conductors are made detachable, in order that they may be so placed as to cause the machine to deliver either forward or in rear of the feed-cups.

In the patents above referred to the receivers or grain-conductors were attached to the feed-cups by means of hooks locking over the top of the driving-shaft, the said hooks being held over the shaft by means of springs. It has been found in practice, however, that this arrangement caused friction and consequent wearing away of the driving-shaft.

To obviate this difficulty is the object of my present invention.

In the drawing, B represents the bottom of the seed box or hopper, to which is attached the feed-cup A. This cup A is provided at its lower end with lugs or ears C projecting downward, there being one on each side of the cup. These lugs or ears are provided with a hole or opening, through which the end of a hook, O, passes, the said hook being connected

to the receiver or grain-conductor E, thus locking the receiver to the feed-cup A.

In order to prevent the hooks O from working out, and thus allowing the receiver to become detached from the feed-cup, I provide springs s, one end of which fit over projections a cast on the receiver or grain-conductor, and the other in recesses formed in the lower ends of the hooks O, as shown in Fig. 2. The hooks O being pivoted at l the upper ends are thrown inward by the pressure of the springs s at the lower end, thus making the attachment of the receiver to the feed-cup secure and rigid, while the upper portions of the receiver or grain-conductor resting against the upper part of the feed-cup A prevent any rattling of the receivers, and hold the same in the proper position.

It will be observed that, by this arrangement, the unnecessary wear and friction on the driving-shaft D are avoided, and the attachment of the receiver to the feed-cup made even more secure than by my former device, while at the same time the receivers or grain-conductors may be readily detached and reversed.

It will also be observed that the arrangement of the hooks permits them to be readily operated by one hand, whereas the device shown in my patents, above referred to, required the use of both hands, and was, consequently, inconvenient to handle.

Having described my invention, I claim—

The adjustable receiver E, provided with the spring-catches O, in combination with the feed-cup A provided with the lugs C, substantially as described.

DANIEL E. MCSHERRY.

Witnesses:

O. M. GOTTSCHALL,
R. BRUNDRETT,
EDWARD BRENNEMAN.