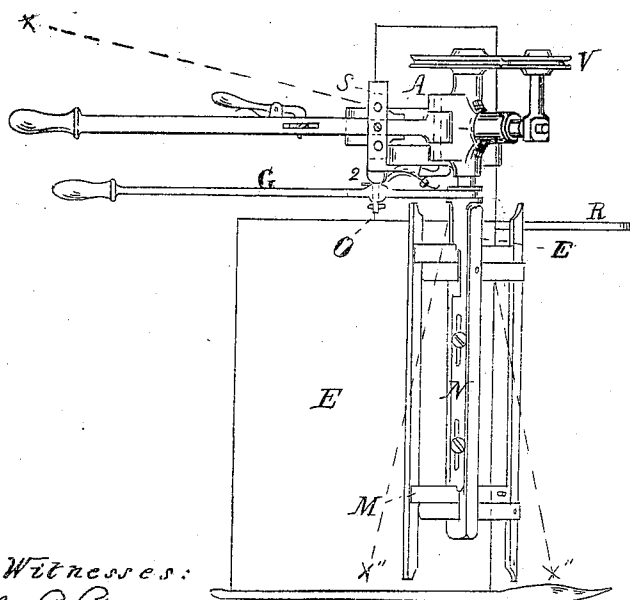
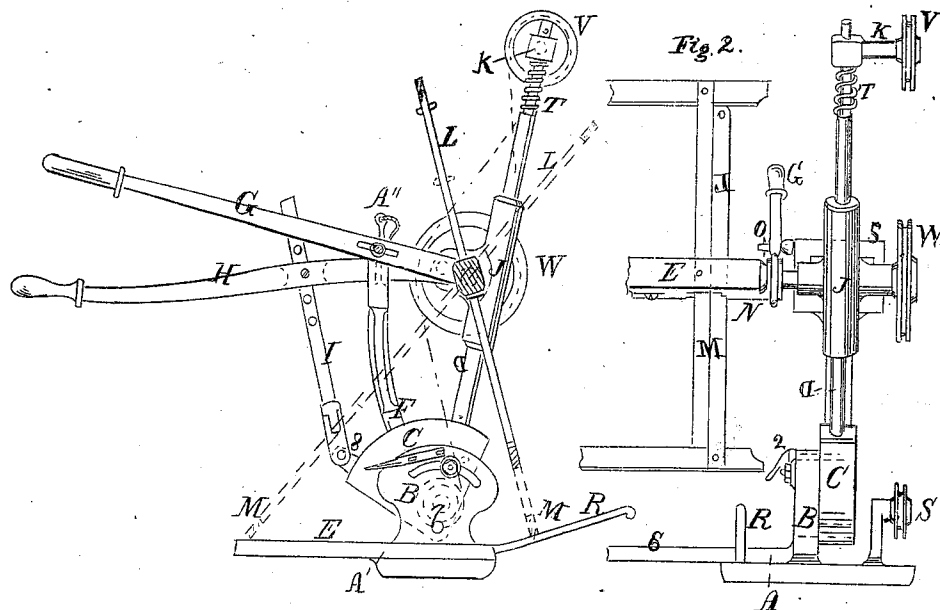


Reeve & Smith, Harvester Reake.

No. 82,991.

Patented Oct. 13, 1868



Witnesses:
W. F. Sprague
J. A. Hangerford

Thaddeus S. Reeve
W. B. Smith

UNITED STATES PATENT OFFICE.

THADDEUS S. REEVE AND CHARLES D. SMITH, OF CHICAGO, ILL., ASSIGNORS
TO THEMSELVES AND WILLIAM SCHWARTZ, OF SAME PLACE.

IMPROVEMENT IN HARVESTER-RAKES.

Specification forming part of Letters Patent No. **82,991**, dated October 13, 1868.

To all whom it may concern:

Be it known that we, THADDEUS S. REEVE and CHARLES D. SMITH, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Rake-Reels for Grain-Reapers; and we do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

Figure 1 is a side view of the apparatus. Fig. 2 is a front view, and Fig. 3 is a top view, of the same.

The object of this invention is the construction of a grain-reaper reel and apparatus to gather the grain at any angle, and remove the same from the machine at intervals, as may be desired, at the will of the operator, who need not stop the machine in order to work this apparatus.

3 represents the ordinary platform of the machine, provided with knife at its front edge, as in all reapers. S is a pulley, secured to any revolving shaft, and gives motion to the reel-shaft E by means of pulley W and belt passing over tightening-pulley V.

Standard B is firmly secured to the bed of the machine, to which is secured plate C, pivoted at 7, and secured at the desired angle by catch-pin and lever 2.

Stem D is rigidly fastened to the plate C and guide-sleeve J, which supports and forms the bearing of the reel-shaft E.

The lever H, pivoted to the sleeve J, with its fulcrum in the slot at the upper end of standard F, is provided with bar I and lever-pin P for securing the same when elevating or depressing the reel.

The joint 9 in bar I and the slot at the upper end of the standard F in the lever H admit of the adjustment of lever H from X to

X, and thereby changes the position of the reel from any point between X'' and X'. This lever H is held in place laterally by means of a pin, A'', passing through the lever into the standard F''.

The lever G, pivoted at O, with the end of its short arm clasping the sleeved end of slide N, moves the slide backward or forward, as may be desired, the whole being retained in position by spring 6.

The reel is provided with one or more sliding sections, as M, which descends in its motion, resting upon rod R, and operates to remove the grain in its passage of the bed C, delivering it at the rear of the machine in quantities as may be desired for proper-sized bundles. The extension sliding section of the reel, when released by the slide N, falls downward, as before described, and by its own weight returns, when in vertical position, and is secured, as before shown.

Arm K, sleeved to the standard D, forms the journal for pulley V, and spiral spring T serves to secure the proper tension of the belt and prevent any slipping of the same.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The adjustable plate C, in combination with the standard D, sleeve J, and lever H, for supporting the reel, as fully set forth and shown.

2. The boxed sleeve J, oscillating on the standard D, in combination with the adjustable lever H, pin A'' or its equivalent, and slotted standard F, substantially as set forth.

3. The sliding section of the reel M, slide N, and lever G, as fully set forth and shown.

THADDEUS S. REEVE.
C. D. SMITH.

Witnesses:

H. S. SPRAGUE,
F. L. HARVEY.