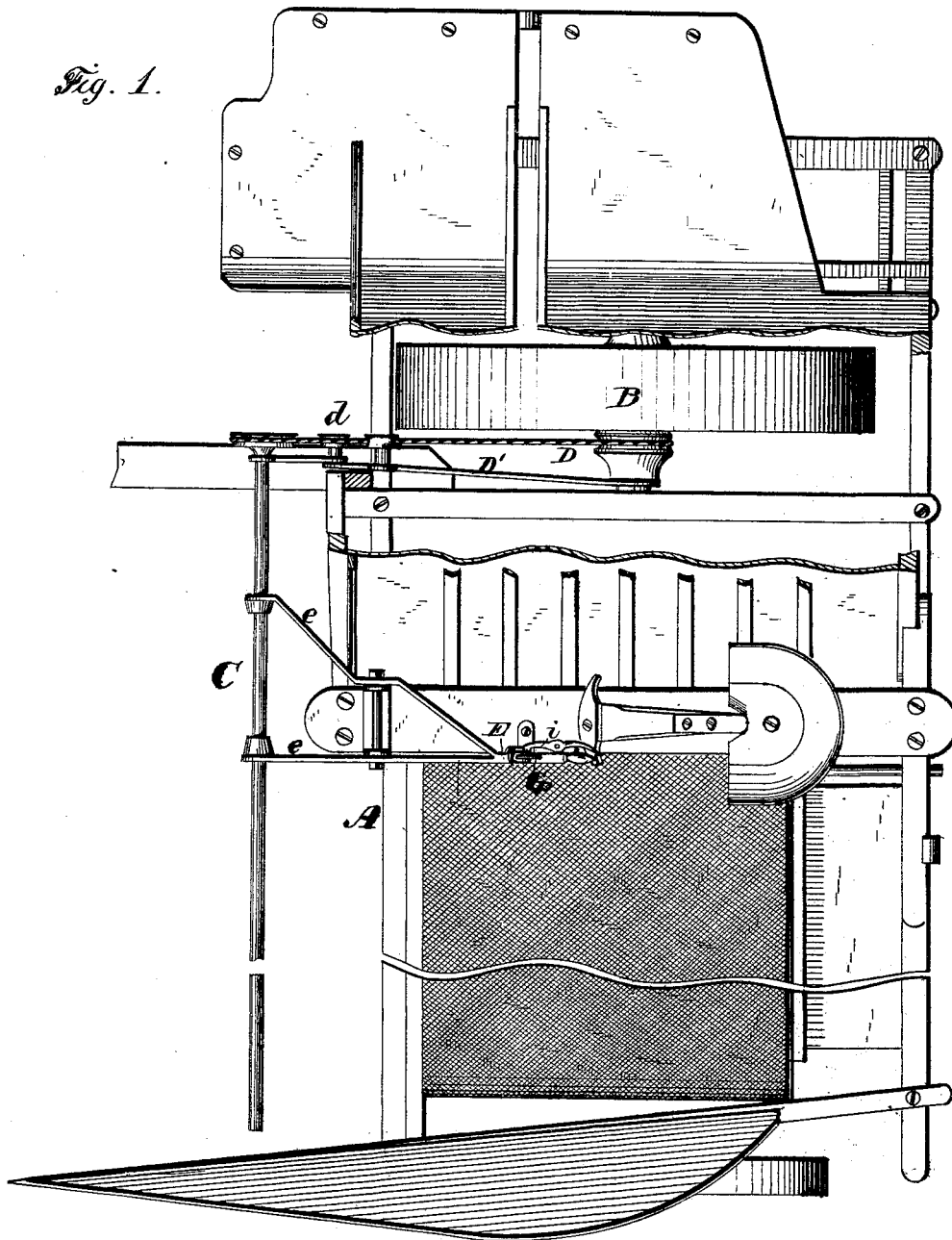


S. D. LOCKE.  
Harvester-Reel.

No. 218,634.

Patented Aug. 19, 1879.

Fig. 1.



WITNESSES

W. H. H. Knight  
W. Blackstock

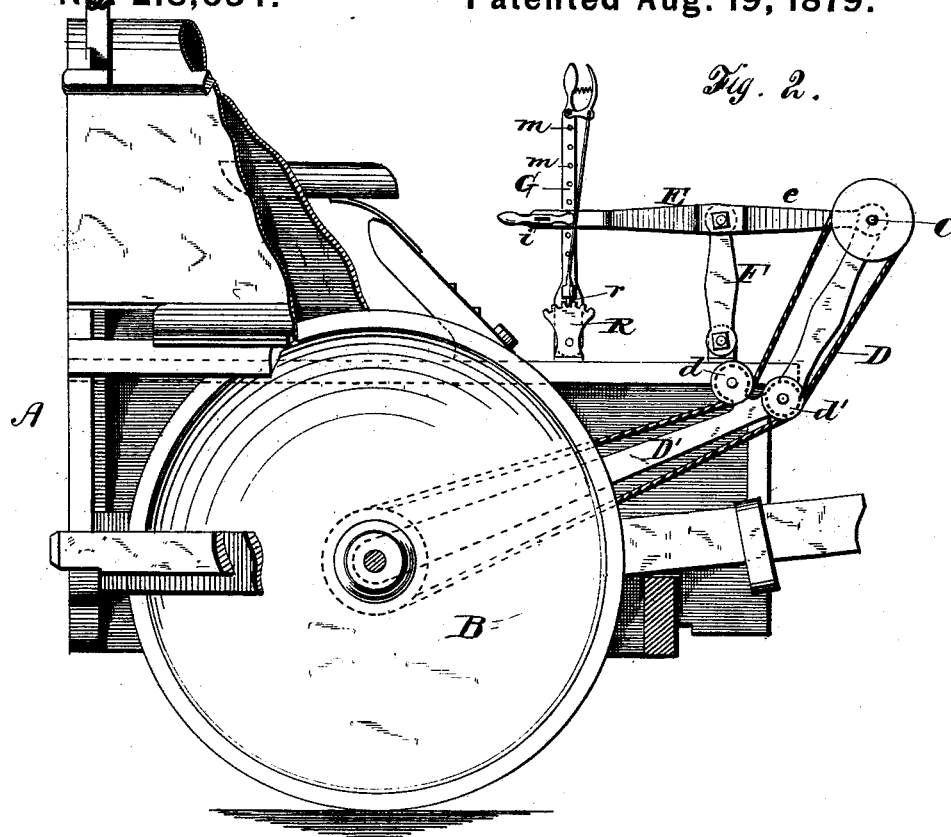
INVENTOR

Sylvanus D. Locke  
By L. Hill,  
His ATTORNEY.

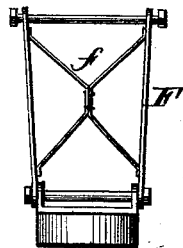
S. D. LOCKE.  
Harvester-Reel.

No. 218,634.

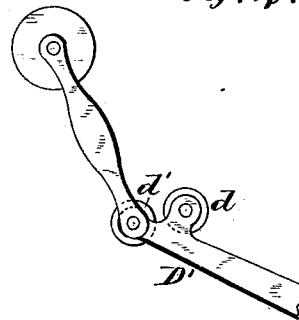
Patented Aug. 19, 1879.



*Fig. 3.*



*Fig. 4.*



WITNESSES

W. H. Knight  
W. Blackstock

INVENTOR

Sylvanus D. Locke  
By L. Hill,  
His ATTORNEY

# UNITED STATES PATENT OFFICE.

SYLVANUS D. LOCKE, OF HOOSICK FALLS, NEW YORK.

## IMPROVEMENT IN HARVESTER-REELS.

Specification forming part of Letters Patent No. **218,634**, dated August 19, 1879; application filed June 12, 1879.

*To all whom it may concern:*

Be it known that I, SYLVANUS D. LOCKE, of Hoosick Falls, in the county of Rensselaer and State of New York, have invented a certain new and useful Improvement in Harvester-Reels; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top-plan view of a harvesting-machine with my improvements applied thereto. Fig. 2 is a sectional elevation of the same. Fig. 3 is a front view of the rocking frame, and Fig. 4 a detached view of the jointed connecting-bar and the pulleys mounted thereon.

This invention relates to the means for supporting and adjusting the reel of harvesting-machines; and has for its object to simplify and improve the construction and operation of the mechanism whereby the said reel is vertically and horizontally adjusted to the length and condition of the grain or other material to be harvested.

To this end the invention herein claimed consists in the construction and combination of the supporting and adjusting mechanism in such manner that the lever for effecting the vertical adjustment of the reel is itself adjusted upon the lever by which the horizontal adjustment of the reel is effected, said two levers being crossed and adjustably connected at the point of intersection.

In the drawings, A is the harvester; B, the driving-wheel; C, the reel-shaft, and D the driving-belt, applied and rendered automatically adjustable to the changing positions of the reel-shaft in the usual manner—viz., by means of pulleys *d d'*, supported upon a jointed connecting-bar, D', pivoted at one end to the axle, or in line with the axle, of wheel B; and at the other end to the reel shaft or axle, so that the guide-pulleys *d d'* will move in lines concentric with each of said axles, and a uniform tension of the belt will be at all times maintained.

The reel-shaft is supported upon or in the forked arms *e e* of a lever, E, which is pivoted

to a rocking frame, F, having its support upon the harvester, as shown. A vertical lever, G, is pivoted at its lower end to the harvester, and extends up through or alongside the lever E, so that the end of the latter can be adjusted up and down upon the former, and held at any desired elevation thereon by means of suitable locking mechanism, as by a series of holes, *m m*, in lever G and a spring snap-catch, *i*, on lever E. The inclination of the lever G forward and backward with reference to a vertical line is adjusted and fixed by means of a rack-segment, R, and spring snap-catch *r*, or other suitable locking and adjusting mechanism. The frame F should be made very rigid, and so pivoted as to move accurately on its bearings without lateral swaying or deflection, to which end it may be cross-braced or tied, as shown at *f*, and may, further, if desired, be stayed by guides bearing against its sides.

Thus constructed and supported, the reel can readily be adjusted back and forth horizontally toward and from the grain-platform or the cutter by means of the lever G, rack R, and catch *r*; and it can be adjusted vertically by means of the lever E and snap-catch *i*, or both horizontally and vertically by means of both levers G E, as will be readily understood. The handles of the two levers are brought close together and within easy reach from the driver's seat, so that the reel can be readily and conveniently controlled at will.

The construction here shown and described dispenses with several parts heretofore considered necessary, and thereby not only simplifies the mechanism, but renders it more compact, convenient, and less liable to get out of order.

Having thus described the invention, I claim as new—

The combination of the pivoted support F, or its equivalent, with the two connected adjustable levers E G and the reel-shaft, substantially as described.

SYLVANUS D. LOCKE.

Witnesses:

M. CHURCH,  
W. BLACKSTOCK.