

D. S. FULTON.  
Harvester-Reel.

No. 159,316.

Patented Feb. 2, 1875.

Fig: 1.

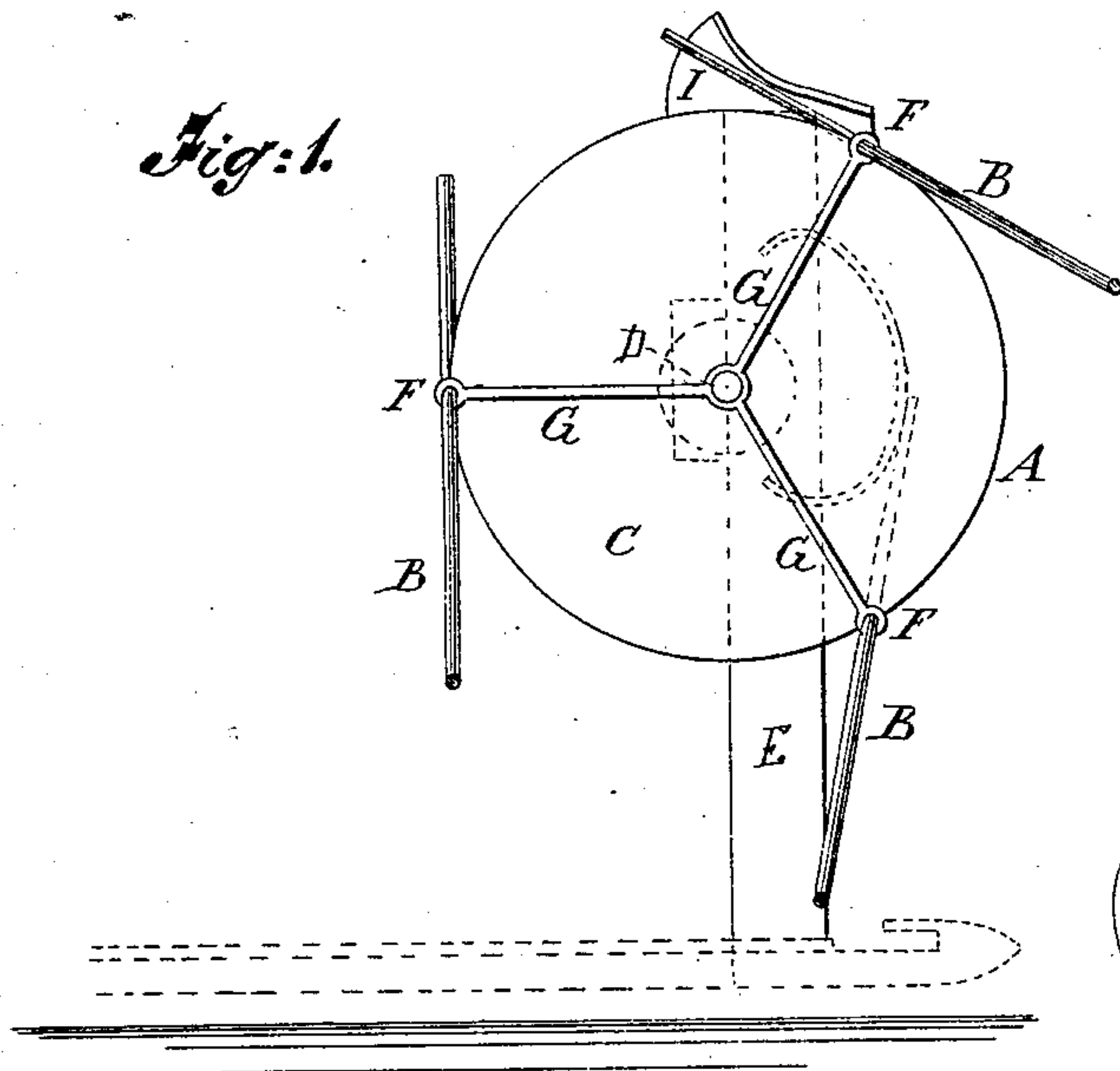


Fig: 3.

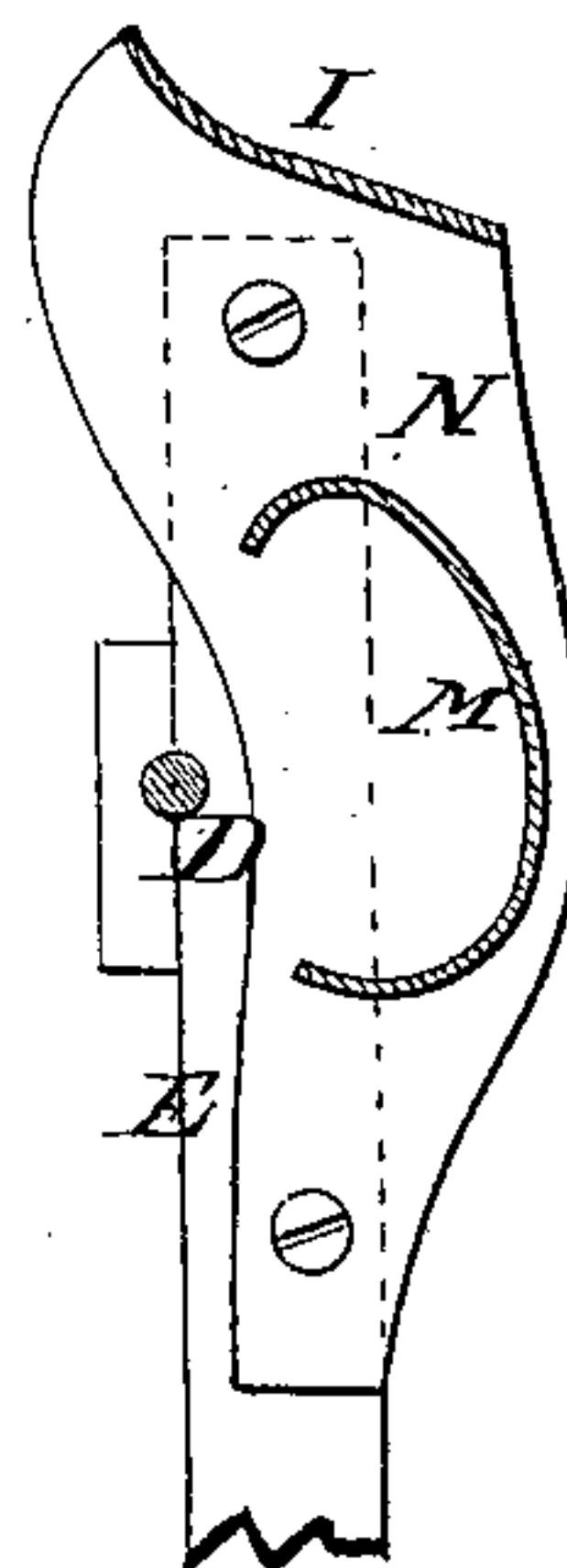
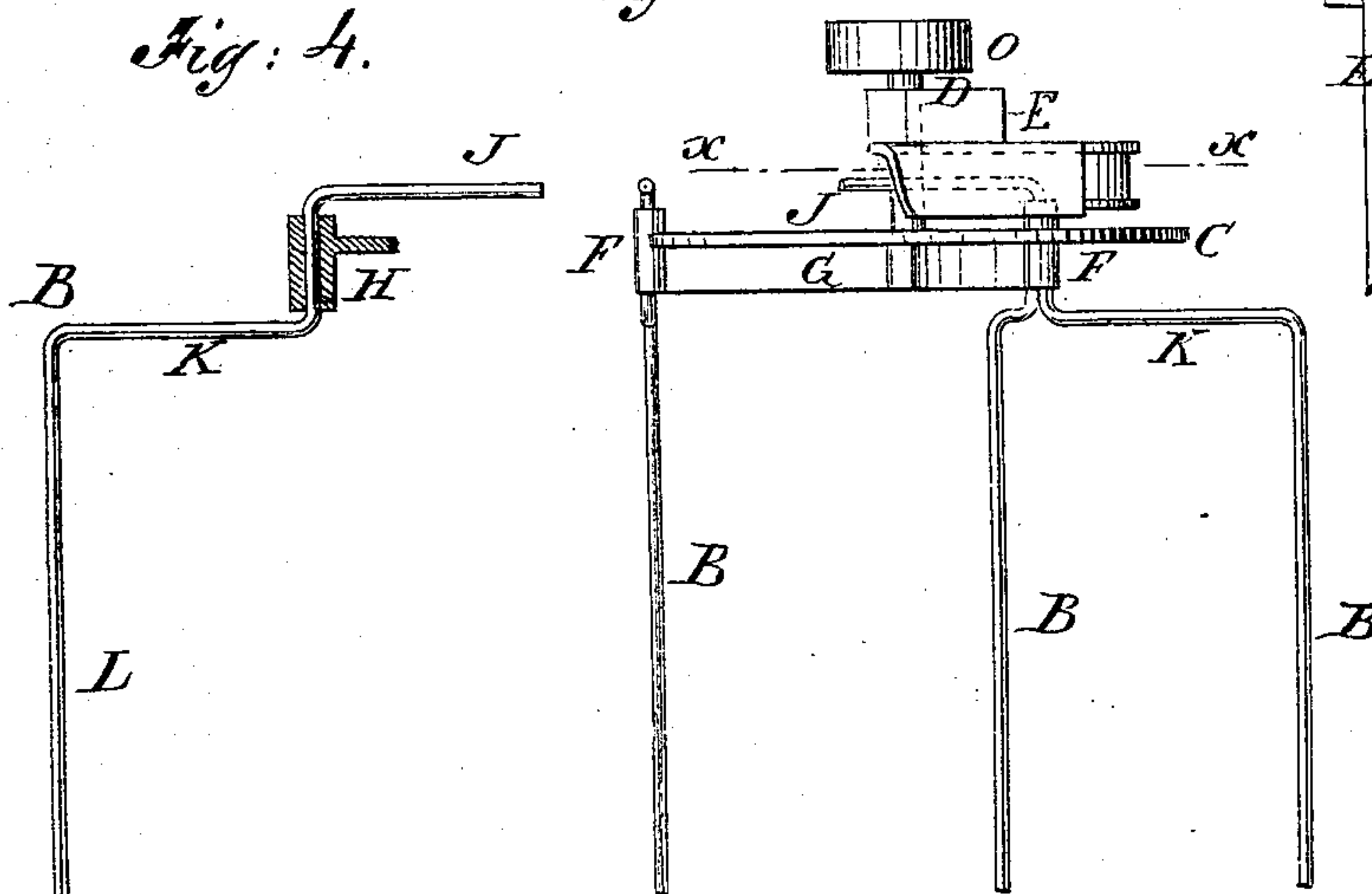


Fig: 4.



WITNESSES:

Onas Nida.  
A. J. Terry

INVENTOR:

D. S. Fulton  
BY *[Signature]*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

DAVID S. FULTON, OF PARIS, PENNSYLVANIA.

## IMPROVEMENT IN HARVESTER-REELS.

Specification forming part of Letters Patent No. **159,316**, dated February 2, 1875; application filed October 3, 1874.

*To all whom it may concern:*

Be it known that I, DAVID S. FULTON, of Paris, Washington county, Pennsylvania, have invented a new and useful Improvement in Reels for Reapers, of which the following is a specification:

This invention relates to a new and useful improvement in machines for harvesting grain; and consists of a reel constructed and arranged to operate as hereinafter described.

In the drawing, Figure 1 is an elevation of my improved reel, showing the arms as when being revolved. Fig. 2 is a top view of the same. Fig. 3 is a view of the cams and cam-plate, and Fig. 4 represents one of the arms detached.

Similar letters of reference indicate corresponding parts.

This reel is elevated above the apron of the reaper, and is revolved on a horizontal shaft.

A is the wheel, to which the arms B are attached. This wheel may be a spider with arms instead of having a continuous plate, C, as seen in the drawing. D is the driving-shaft. E is the reel-post, to which the reel is attached by the shaft D. The arms B are hinged to the rim of the wheel by means of short tubes F at the ends of the ribs or stays G, which are attached to the plate C. The arms are bent, as seen in Fig. 4, and the short portions H pass through the tubes F and revolve freely therein. I is a cam on the stand, and is, of course, stationary. As the wheel

revolves, the ends J of the arms strike the cam, which throws outward the portions L into a position to allow them to sweep the apron. M is a cam on the same plate with I, which receives the ends J, which ends bear against it, and enable the horizontal arms L to hold their position when they are resisted by the grain on the apron or platform. The cams I and M both project from the cam-plate N. When the ends J leave the cam M the arms drop by their own gravity, and are carried around until the ends J again strike the cam I, which throws the arm L into the proper position for again sweeping the apron. The two cams may be made of a single piece, and on the ends J there may be a friction-roll to bear against the cams.

By this construction it will be seen that the arms of the reel act independently of each other.

The reel is revolved by means of a belt on the pulley O.

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

The wheel A, provided with arms B pivoted thereto, and having the bent sections J H K L, in combination with the stationary cams I M, as and for the purpose specified.

DAVID S. FULTON.

Witnesses:

JOHN MCCOLLOUGH,  
JOSEPH BELL.