(No Model.) 2 Sheets—Sheet 1.

J. H. ROSE.

ADJUSTABLE REEL FOR HARVESTERS.

No. 337,285. Patented Mar. 2, 1886.

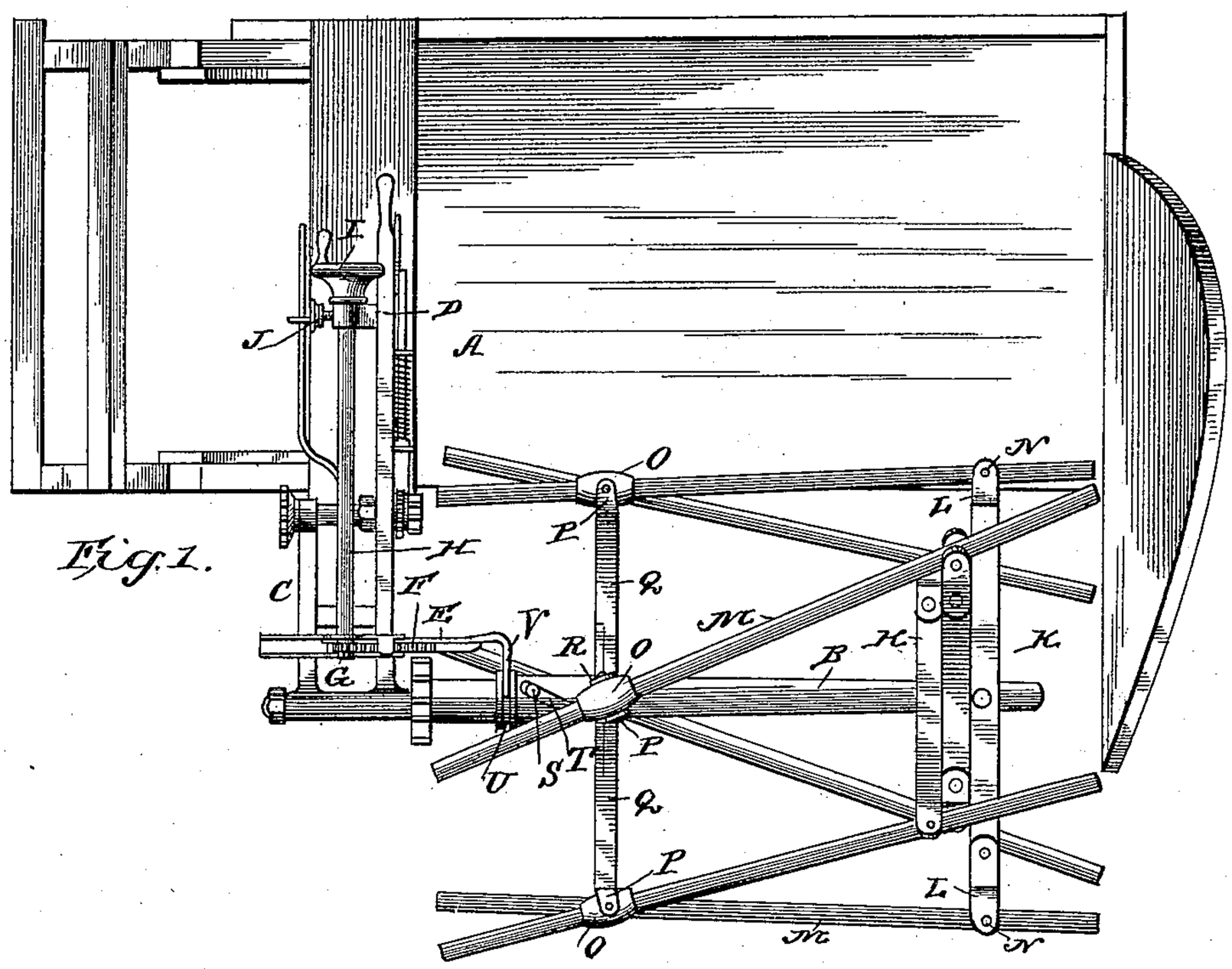

Fig. 1.

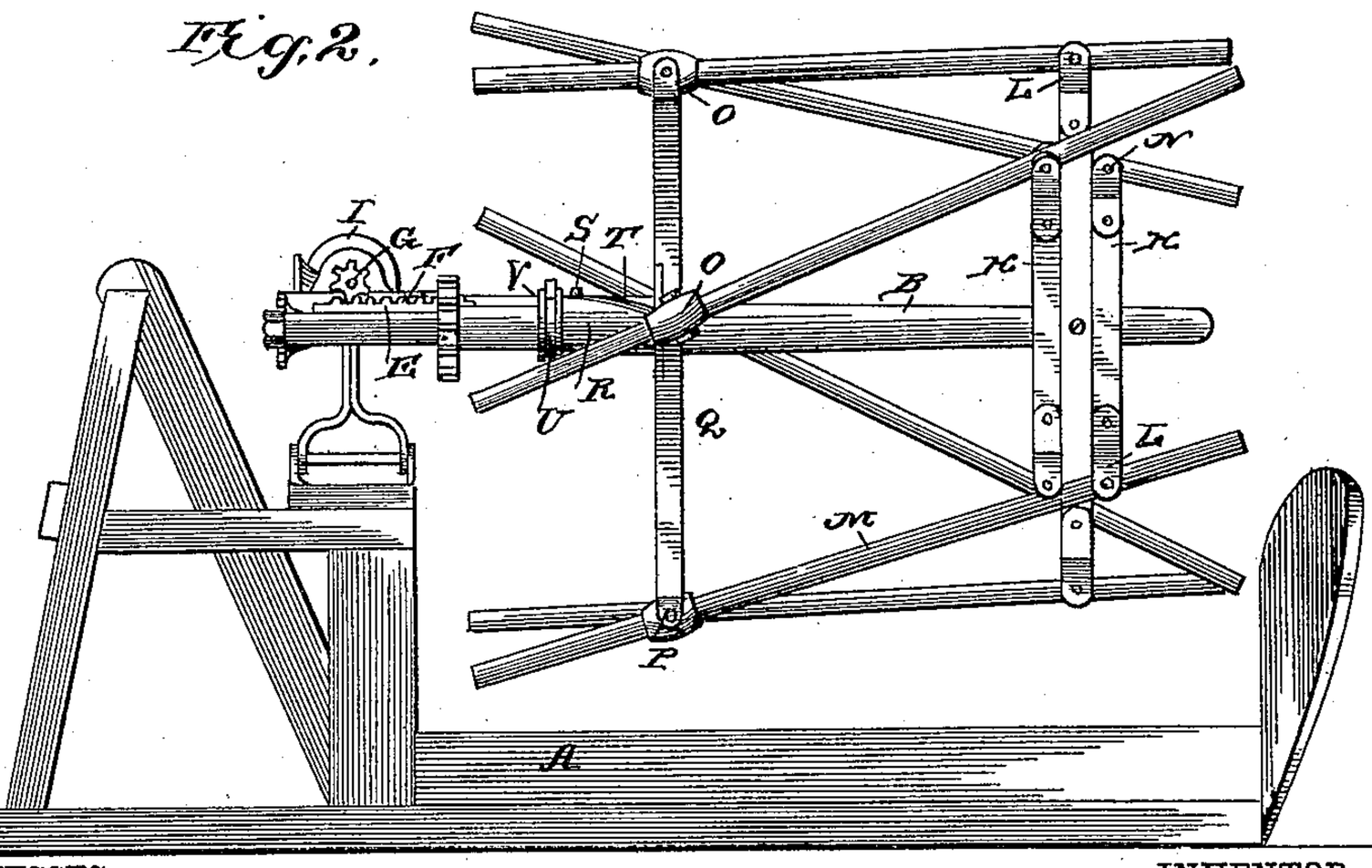

Fig. 2.

WITNESSES:

Fred. L. Dieterich.

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INVENTOR.

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Fig. 3.

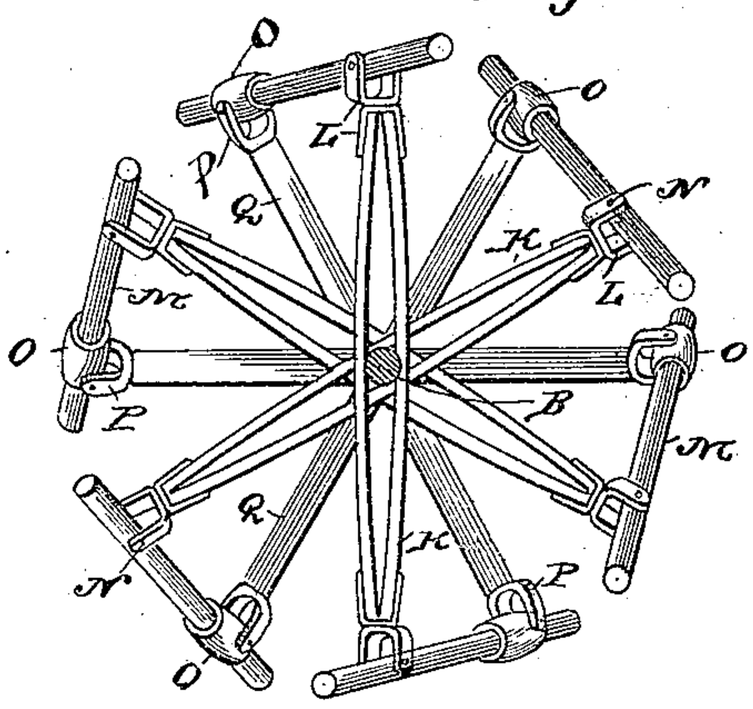


Fig. 5.

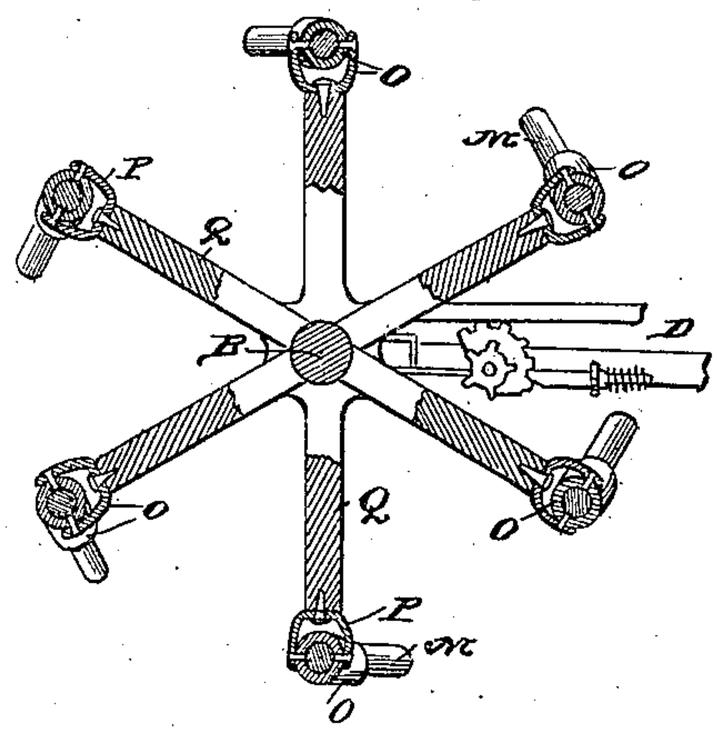
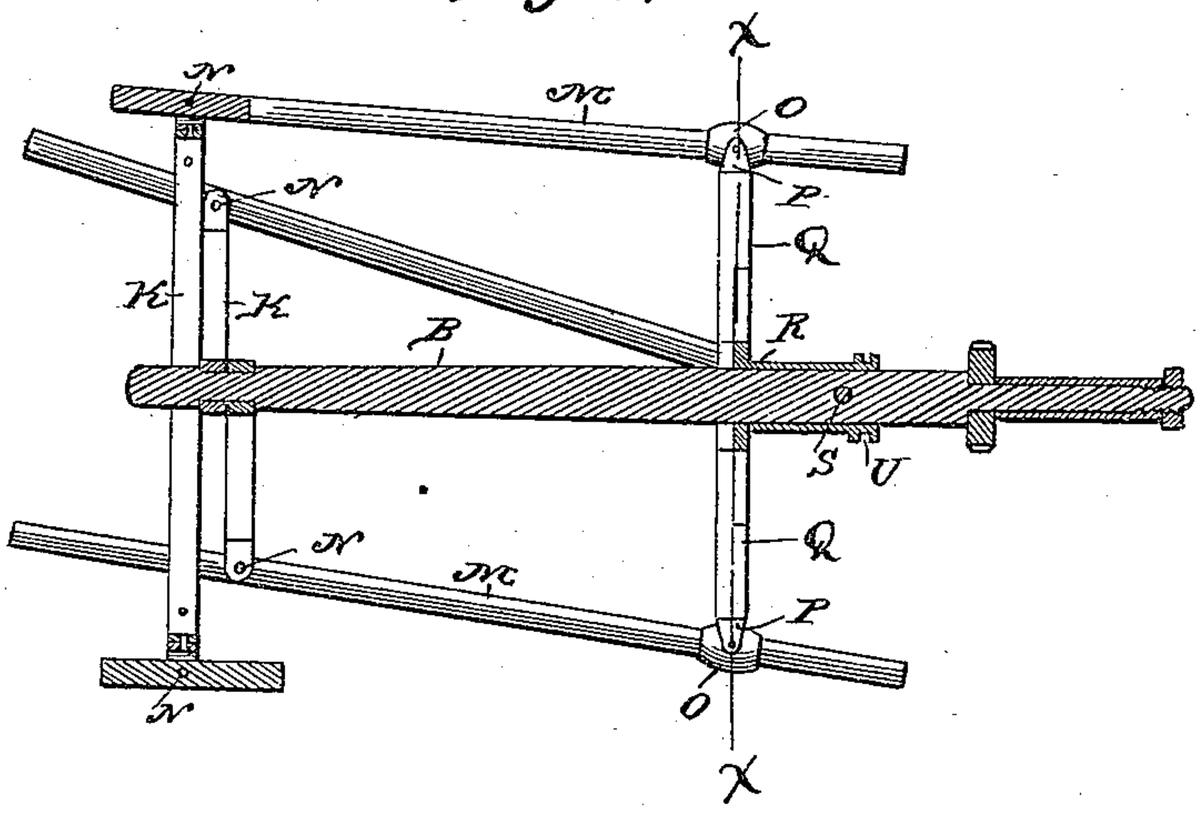


Fig. 4.



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John H. Rose,

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UNITED STATES PATENT OFFICE.

JOHN H. ROSE, OF PRAIRIE DU SAC, WISCONSIN.

ADJUSTABLE REEL FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 337,285, dated March 2, 1886.

Application filed March 25, 1885. Serial No. 160,087. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. ROSE, a citizen of the United States, and a resident of Prairie du Sac, in the county of Sauk and State of Wisconsin, have invented certain new and useful Improvements in Adjustable Reels for Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a top view of my improved adjustable reel, showing also a portion of the harvester-frame to which the same is attached. Fig. 2 is a front view of the same. Fig. 3 is an end view. Fig. 4 is a vertical sectional view taken longitudinally through the reel-shaft, and Fig. 5 is a vertical transverse sectional view taken on the line *x x* in Fig. 4.

The same letters refer to the same parts in all the figures.

My invention relates to reels for harvesters; and it has for its object to provide a reel in which the beaters may be adjusted by the driver, so as to incline the several beaters with either their outer or inner ends projecting forward in advance of the opposite ends, according to the direction in which the grain to be cut has been inclined by the wind or other causes.

The invention consists in the improved construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates the harvester-frame, and B is the reel-shaft, which is connected therewith by means of a hinged or pivoted frame, C, for the adjustment and retention of which suitable means are provided, a hand-lever, D, being provided, whereby the said frame may be adjusted. The frame C, in which the reel-shaft is journaled, is provided with bearings for a laterally-sliding bar, E, having a toothed portion or rack, F, engaging a pinion, G, upon the front end of a shaft, H, which is journaled in suitable brackets or bearings upon the side of the frame C. The rear end of the shaft H is provided with a hand-wheel, I, by means of which it may be readily adjusted or manipulated, and it may be retained in any position to which it may be adjusted by means of a set-screw, J, inserted into one of the bearings and adapted to be tightened up against the said shaft. The outer end of the reel-shaft B is provided with radial arms K K, the outer ends of which are provided with pivoted bails or clevises L L, in which the reel-beaters M M are secured by means of transverse pivoting-pins N. The inner ends of the reel-beaters extend through sleeves O, mounted pivotally in bails P, which are secured pivotally upon the outer ends of the inner reel-arms, Q Q, which extend radially from a hub, R, arranged to slide upon the reel-shaft. The shaft is provided with a pin or stud, S, extending through a slot, T, formed obliquely in the hub R, and the latter is provided with an annular groove, U, receiving a fork, V, formed at one end of the laterally-sliding rack-bar E. It will thus be seen that when the latter is adjusted laterally by the means already described the hub or sleeve R will be moved laterally upon the reel-shaft, and at the same time turned upon the same, thereby adjusting the reel-beaters to an oblique position, with either of their outer or inner ends inclined forward, or from an oblique to a straight position, in which they may be retained by fastening the adjusting-shaft by means of the set-screw bearing against the same.

The advantages of this invention will be readily understood from the foregoing description, when taken in connection with the drawings hereto annexed.

The construction is simple and inexpensive, and it admits of the reel-beaters being adjusted while the machine is in motion to any position in which they will operate in the grain in the most efficient and satisfactory manner.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a harvester-reel, the combination of the shaft, the fixed radial arms at one end of the same, the beaters connected to the said arms by the pivoted bails or clevises, and a hub adapted to be moved in a spiral direction upon the said shaft, and having arms provided with pivoted sleeves, through which the inner

ends of the reel-beaters extend, substantially as herein described, for the purpose set forth.

2. In a harvester-reel, the combination of the shaft, fixed radial arms at one end of the same, beaters connected to the outer ends of said arms by universal joints, a sliding hub arranged upon the said shaft and having an oblique slot, a pin extending from the shaft through the said slot, arms extending radially from the said hub and having sleeves through which the inner ends of the reel-beaters extend, a sliding rack-bar having a forked end engaging an annular groove in the said hub, and means for adjusting the said rack-bar and retaining it in any position to which it may be adjusted, substantially as herein described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN H. ROSE.

Witnesses:
ERNEST LOTZ,
E. W. YOUNG.