

J. W. DAVIS.

Adjustable Reel Post for Harvesters.

No. 105,654.

Patented July 26, 1870.

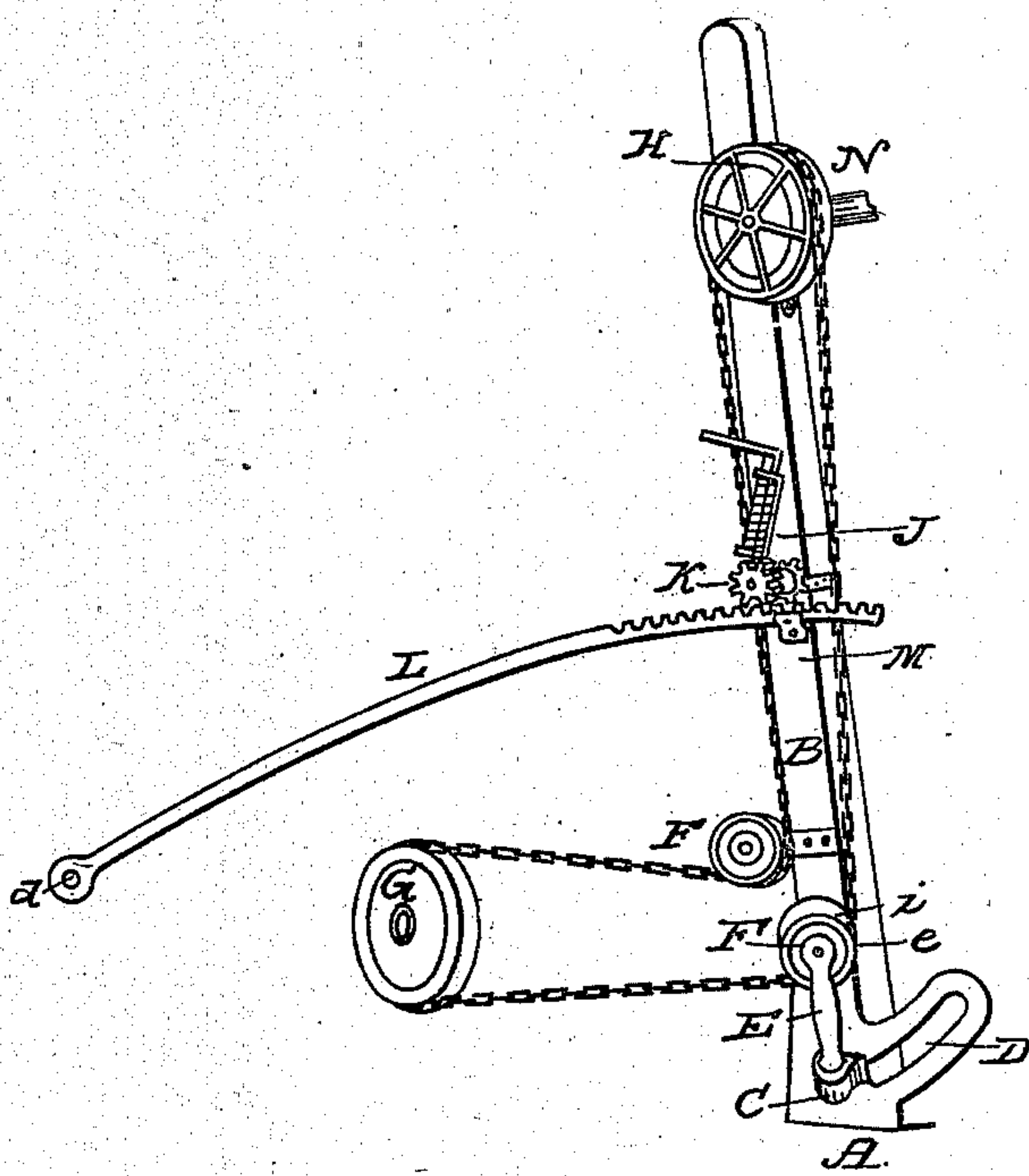


Fig. 1

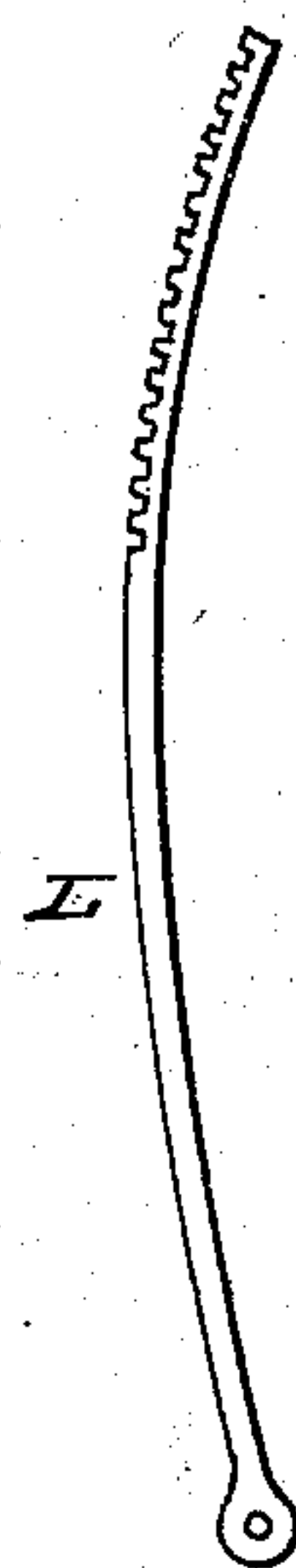


Fig. 7

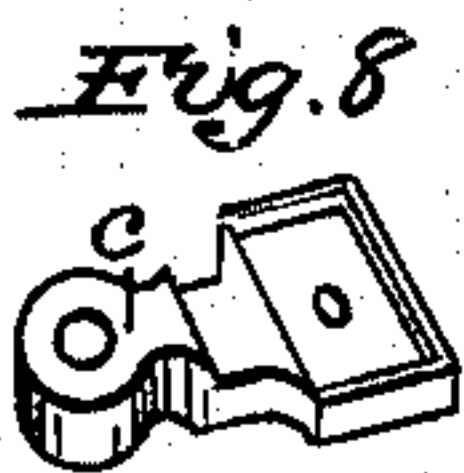
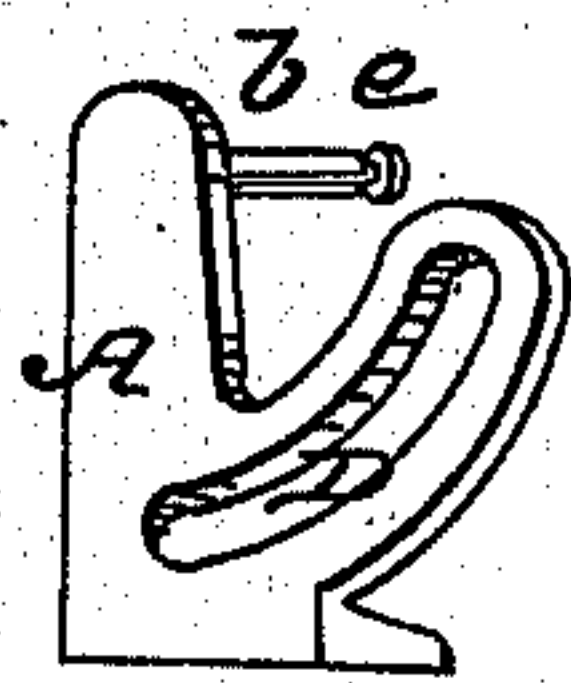


Fig. 8

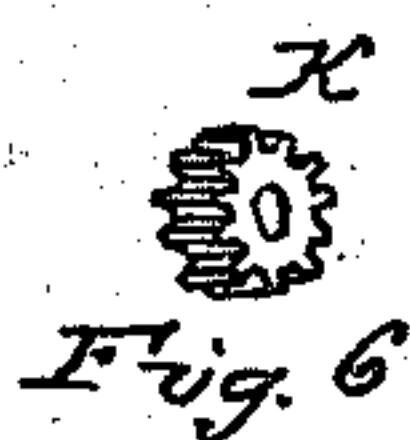


Fig. 6

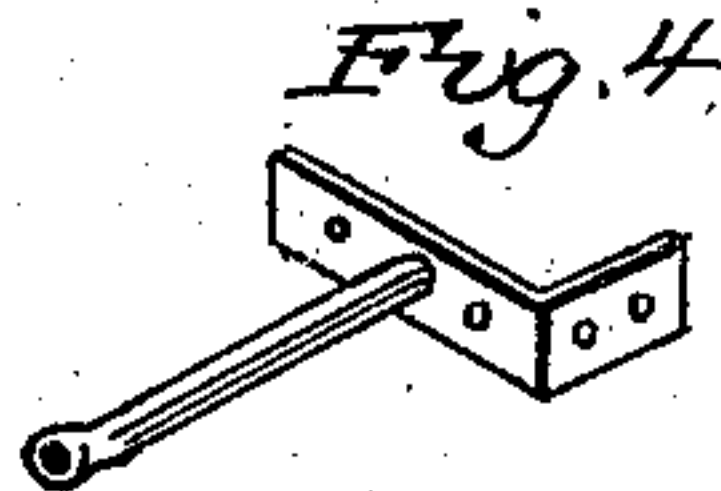


Fig. 4

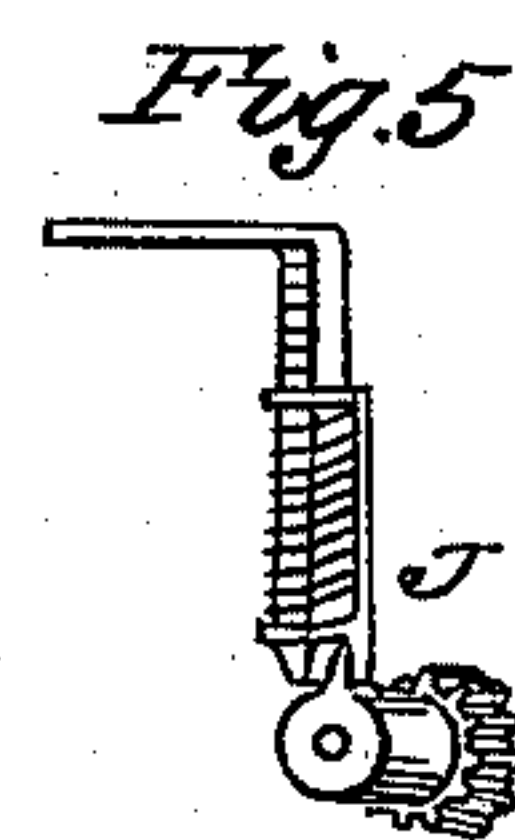


Fig. 5

Witnesses
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JOSEPH WATTS DAVIS, OF DUBLIN, OHIO.

IMPROVEMENT IN ADJUSTABLE REEL-POST FOR HARVESTERS.

Specification forming part of Letters Patent No. 105,654, dated July 26, 1870.

To all whom it may concern:

Be it known that I, JOSEPH WATTS DAVIS, of Dublin, of the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Reaping-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure I is a perspective view of the attachment to a rear-cut reaping-machine constructed according to my invention. Fig. II is a detached view of the reel-post stand. Fig. III is a detached view of the pulley-fastening for bottom of reel-post. Fig. IV is a detached view of the ratchet-wheel shaft. Fig. V is a detached view of the spring-bolt and ratchet-wheel. Fig. VI is a detached view of the ratchet-fastening. Fig. VII is a detached view of the traveling-brace.

Similar letters of reference indicate corresponding parts in all the figures.

To enable others to understand the nature and construction of my invention, I will proceed to describe it with reference to the drawings.

A, in Fig. I, represents the reel-post stand, the bottom of which is to rest on the inside reaper-shoe, supporting the reel-post B by means of a shaft passing through said post at a point shown by the dotted lines *ie*, more particularly seen in Fig. III, and upon which the reel-post is turned. C represents the pulley-fastening, attached to bottom of reel-post, and which projects through the curved opening D, having a shoulder bearing on the outer surface of the reel-post stand. Said pulley-fastening is shown in Fig. III. E represents the pulley-fork, which is attached to and fastened by means of a nut underneath said pulley-fastening. F F represent the reel-chain pulleys, which carry the endless chain in its passage around the drive-wheel sheave G and the reel-sheave H. The said pulleys F F are so situated that their chain-surface is equidistant from the pivot or shaft upon which the reel-post turns. J represents the ratchet-wheel and spring-bolt, more particularly shown in Fig. V, which moves around the ratchet-wheel shaft, as shown in Fig. IV. K represents the ratchet-fastening, which is attached immovably to the outer end of said ratchet-wheel shaft, and has openings or cogs in its surface, as shown in Fig. VI, to receive and hold the

spring-bolt. L represents the traveling-brace—a detached view of the same shown in Fig. VII—which is to be attached on a pivot to a tongue-socket, at the point shown by the dotted line *a*, and the cogs of which are supported under the ratchet-wheel by means of the lip M. N represents the reel-shaft, to which is to be attached the reel-spider.

It will be understood by persons who are conversant in reaping-machines that the driver will be seated at a point where he can easily reach with his right hand the crank of the spring-bolt J, and, by a simple movement, raise the bolt from its socket in the ratchet-fastening K, and, by turning said crank, can lower or raise the reel-post, as may be required, by any irregularities in the stalks of grain being cut by the machine.

The advantages of this peculiar and novel arrangement are that in adjusting the reel-post the tension of the chain is not altered, and, at the same time, the lower end of said reel-post is firmly held in its place by the shoulder on the pulley-fastening C as it passes back and forth through the curved opening D.

The traveling-brace L, spring-bolt, and ratchet-wheel J, and ratchet-fastening K also furnish a firm support to the reel-post after it has been adjusted. The same arrangement is applicable to a front-cut reaping-machine by fastening the end of the traveling-brace (shown by the dotted line *a*) to a pivot on the reel-post, near the lip M, and placing the ratchet-fastening, spring-bolt, and wheel on an upright post, permanently fixed at a point so as to be within a convenient reach from the driver's seat, and at the same time placing the upper reel-chain pulley F on the opposite side of the reel-post, the drive-wheel sheave being also reversed and situated on the wagon of the machine.

What I claim as my invention, and desire to secure by Letters Patent, is—

The pulley-fork fastening C, having a shoulder-bearing for the foot of the reel-post and supporting-pulley fork E, in combination with slotted stand A, pulley F F, and pivoted reel-post B, the several parts being constructed and arranged to operate substantially as described.

JOSEPH WATTS DAVIS.

Witnesses:

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