No. 688,330. Patented Dec. 10, 1901.

J. A. PEEK.

HARVESTER.

(Application filed Oct. 25, 1900.)

(No Model.) 2 Sheets—Sheet 1.

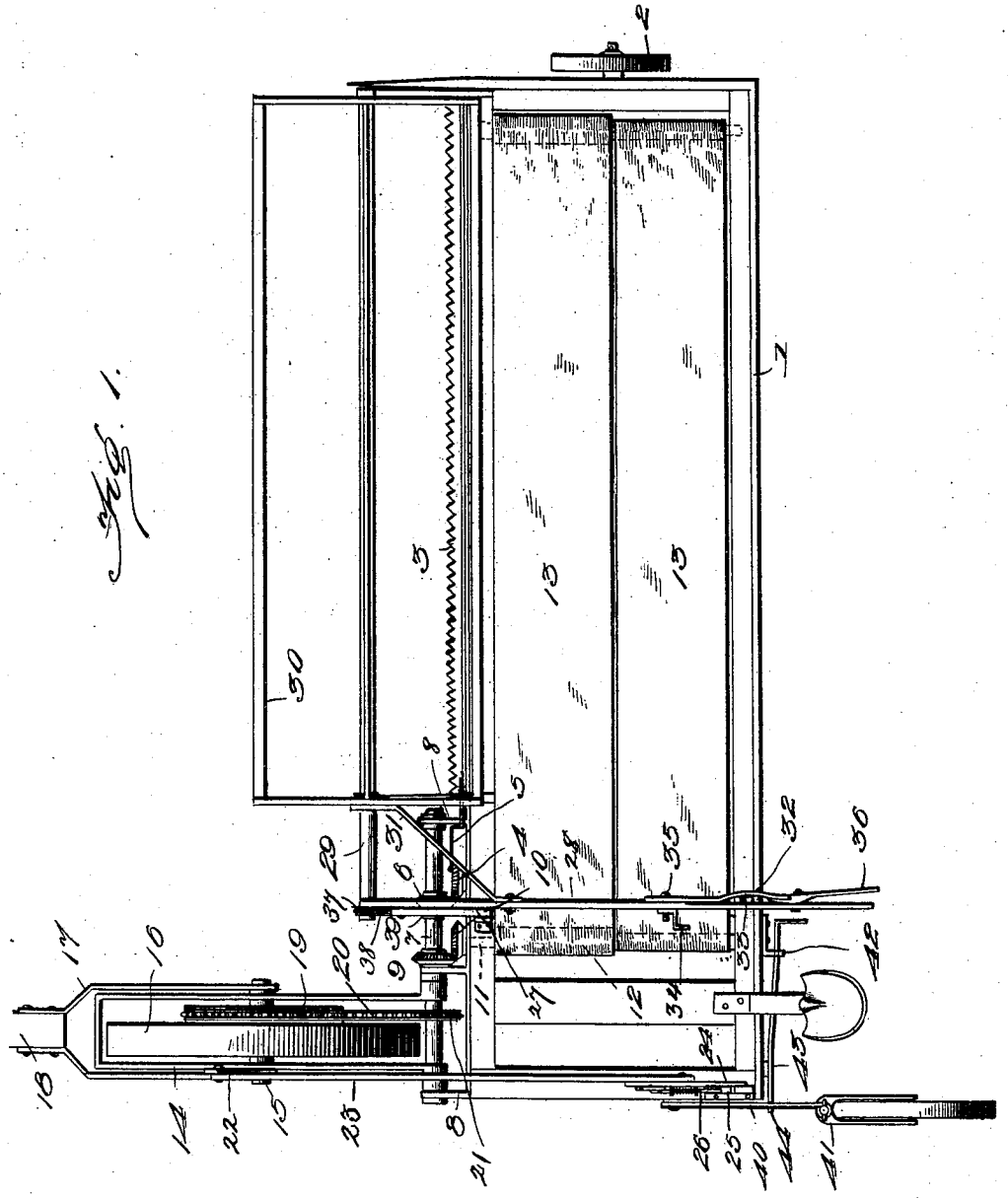

Fig. 1.

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Fig. 2.

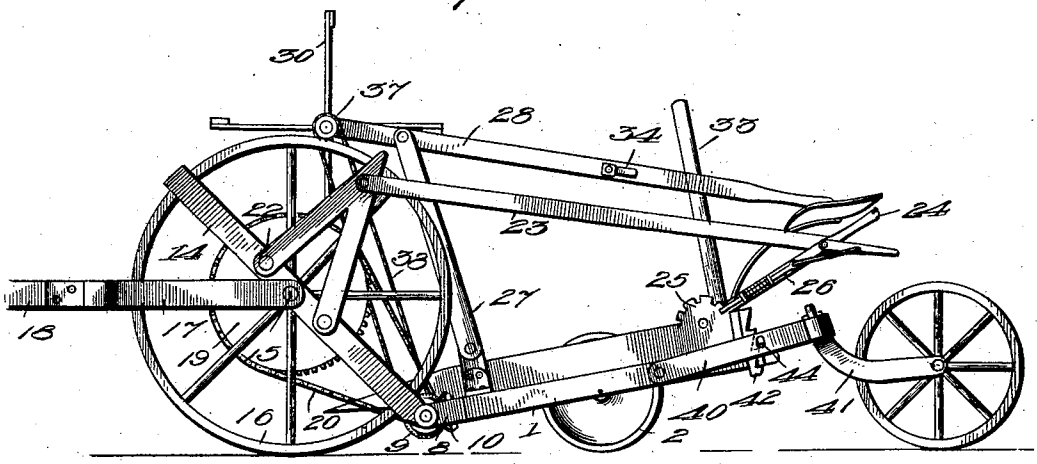
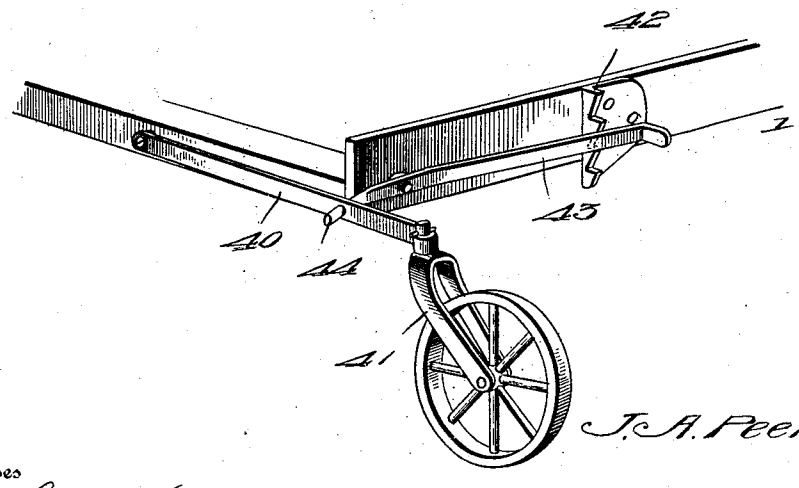


Fig. 3.



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UNITED STATES PATENT OFFICE.

JAMES A. PEEK, OF WESTPLAINS, MISSOURI.

HARVESTER.

SPECIFICATION forming part of Letters Patent No. 688,330, dated December 10, 1901.

Application filed October 25, 1900. Serial No. 34,341. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. PEEK, a citizen of the United States, residing at Westplains, in the county of Howell and State of Missouri, have invented new and useful Improvements in Harvesters, of which the following is a specification.

This invention relates to harvesters; and its primary object is to provide improved reel-adjusting mechanism for this class of machines.

The invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a plan view of the device. Fig. 2 is an end elevation thereof, and Fig. 3 is a detail view of the adjusting mechanism of the rear wheel.

Referring to said figures by numerals of reference, 1 is a preferably rectangular frame having a wheel 2 mounted at one end thereof in any suitable manner. A sickle 3 is slidably mounted upon the front edge of the frame, and motion is imparted thereto from a beveled gear 4, journaled within the front edge through a pitman or connecting-rod 5. This beveled gear receives motion from a second gear 6, which is secured to a shaft 7, mounted in brackets 8, extending from the front edge of the frame 1. A second beveled gear 9 is also secured to said shaft and meshes with a pinion 10, formed at one end of a shaft 11, which extends through rollers 12, journaled between the sides of the frame 1. Two rollers are secured upon the shaft 11, and these rollers are of different diameters. Upon each roller is mounted a conveyer or apron 13, and it is obvious that the apron upon the large rollers 12 will move faster than the apron which is driven by the small rollers.

A yoke 14 is loosely mounted upon the shaft 7, and journaled therein at the center is the shaft 15 of a large draft-wheel 16. A second yoke 17 extends over the yoke 14 and is loosely mounted upon the shaft 15, and secured to this yoke is a tongue 18. A sprocket 19 is secured to the shaft 15, and said sprocket is connected by means of a chain 20 with a smaller sprocket 21, mounted upon the shaft 7. A standard 22 extends upward from one side of the yoke 14, and pivoted thereto is a connecting-strip 23, which is secured at its opposite end to a lever 24, pivoted to the frame 1. A toothed segment 25 is secured to the frame adjacent to the pivoted lever 24 and is adapted to be engaged by a dog 26, mounted upon said lever.

An upright 27 is pivotally mounted upon the frame 1 and connected at its upper end to a strip 28, from the forward end of which extends a horizontal shaft 29. A reel 30 is mounted upon this shaft and extends the entire length of the sickle 3. A bracket 31 extends from the strip 28 and serves to assist the same in supporting the reel 30. A spring-strip 32 is secured to the strip 28 and normally bears upon a standard 33, extending upward from the frame 1, said spring clamping the standard between it and the strip 28. The tension of this spring-strip 32 may be readily regulated by means of a crank 34, mounted upon a bolt 35, which extends through the strips 32 and 28.

A lever 36 is pivoted upon the strip 28 and extends under the spring 32. This lever is adapted when depressed to force the spring-strip 32 out of contact with the standard 33, and thereby permit the strip 28 to be adjusted up or down, backward or forward. A sprocket 37 is mounted upon the shaft 29 and is connected by means of a chain 38 with a second sprocket 39 upon the shaft 7.

A lever 40 is pivoted to the end of the frame 1 which is adjacent to the wheel 16, and at the outer end of this lever is pivotally mounted a caster 41. A rack 42 is secured to the rear edge of the frame and is engaged by a lever 43, fulcrumed upon said edge, and the end 44 of which engages the lever 40. It will be seen that by this construction the caster 41 may be readily moved from or toward the frame 1 and locked in adjusted position.

When the apparatus is drawn forward, motion will be imparted to reel 30 and to the sickle 3 from the shaft 7, as is obvious. When it is desired to adjust the reel from or toward the frame 1, it is merely necessary to press the spring-strip 32 outward. The strip 28 may then be slid back and forth, causing the upright 27 to swing upon its pivots. In

order to swing the reel from or toward the sickle, the spring-strip is again pressed outward, and the strip 28 is free to swing up or down, using the upright 27 as a fulcrum. When it is desired to adjust the sickle from or toward the ground, it is merely necessary to release the lever 24 from engagement with the segment 25. The same can then be swung backward or forward, as desired, causing the yoke 14 to rock upon the shaft 15, thereby raising or lowering the frame 1. As before described, the rear edge of the frame 1 may be moved from or toward the ground by means of the lever 43. By providing two aprons or conveyers 13 which travel at different speeds the grain deposited thereon will be promptly turned and carried end first from one end of the machine to the other.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make all such changes as fairly fall within the scope of my invention.

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

1. In a harvester, the combination with a frame, and a reel-shaft; of reel-adjusting mechanism comprising a strip pivotally secured at its front end to said shaft; an upright pivotally secured at its lower end to the frame and at its upper end to said strip; a spring secured at one end to said strip; a standard rising from the frame and adapted to be engaged by said spring; and a lever fulcrumed upon the strip and bearing against the inner side of said spring.

2. In a harvester, the combination with a frame and reel-shaft supported thereon; of reel-adjusting mechanism comprising a strip pivotally secured at its front end to said shaft; an upright pivotally secured at its lower end to said strip; a spring secured at one end to said strip; a standard rising from the frame and adapted to be engaged by said spring; a lever fulcrumed upon the strip and bearing against the inner side of said spring; and means for tensioning said spring comprising a bolt passing through the spring and strip and a crank on said bolt.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES A. PEEK.

Witnesses:
GUY S. WOODSIDE,
ESSIE JOHNSON.