W. H. HANCOCK.

CARRIAGES.

No. 194,870. Patented Sept. 4, 1877.

Fig: 1.

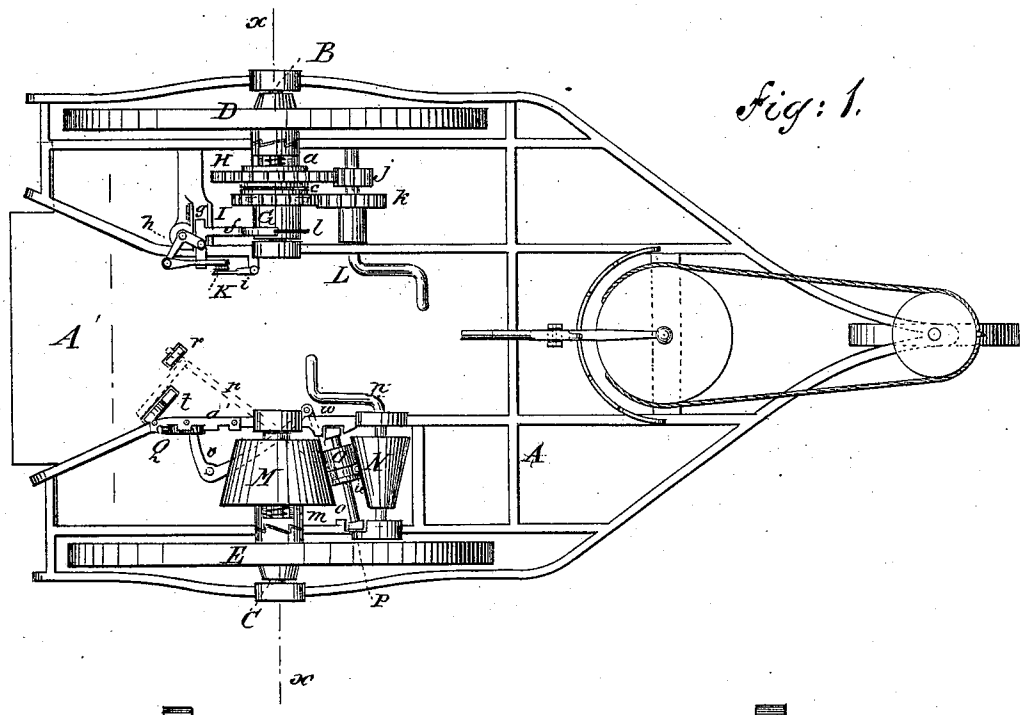
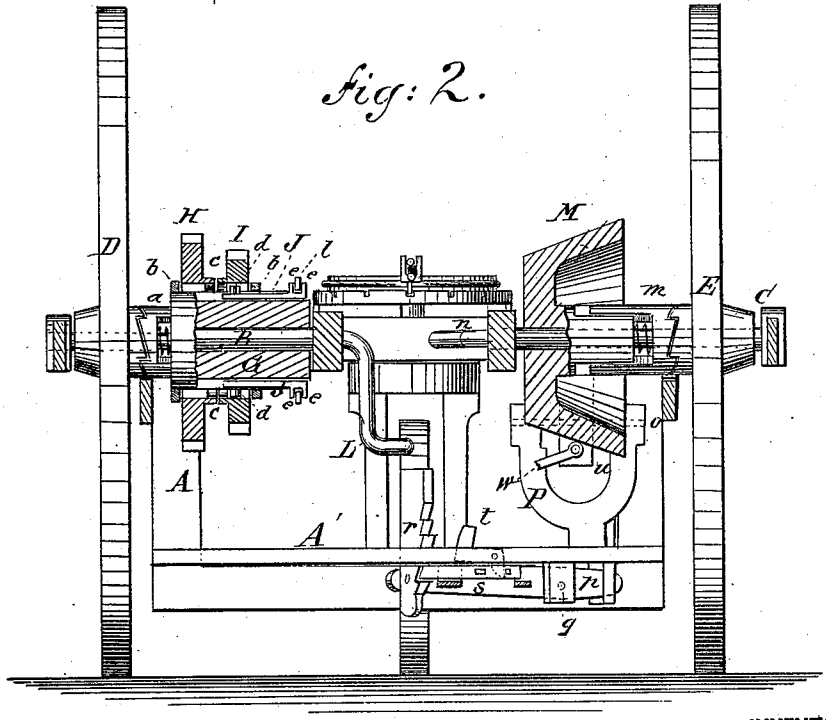


Fig: 2.



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UNITED STATES PATENT OFFICE.

WARREN H. HANCOCK, OF AUGUSTA, GEORGIA.

IMPROVEMENT IN CARRIAGES.

Specification forming part of Letters Patent No. **194,870**, dated September 4, 1877; application filed November 18, 1876.

To all whom it may concern:

Be it known that I, WARREN H. HANCOCK, of Augusta, in the State of Georgia, have invented an Improved Carriage for Agriculturists' Implements, such as stalk-cutters and the like, of which the following is a specification:

Figure 1 of the drawing is a plan, and Fig. 2 a transverse section.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A is the frame of carriage; B C, the axles, and D E the wheels. With wheel E is connected a friction-drum, M, of conical form, and provided with clutch *m*, that engages with teeth on wheel E. N is a conical drum on crank-shaft *n*, arranged with its larger portion opposite the smaller portion of drum M. O is an intermediate wheel on rod *o*, that is supported by a vertically-sliding frame, P, whose lower end passes through a mortise in platform A′, and is connected with a lever, *p*, pivoted at *q*, as well as a ratchet-bar, *r*, projecting through platform A′. The spring-bolt *s* engages with ratchet *r*, and has a disengaging-lever that projects through platform A′. The wheel O is grooved and provided with clutch *u*, moved by lever Q acting through lever *v* and rod *w*. A notched bar, *a′*, is attached to frame A to hold lever Q in position.

The wheel O is forced between drums by pressure on ratchet-bar *r*, and the motion of drum N transmitted to drum M and wheel E. The relative speed of the drums is varied by means of sliding the wheel O on rod *o*.

What I claim as new and of my invention is—

The combination, with wheel O, arranged with respect to cones M N, as shown and described, of the vertically-sliding frame P, lever *p*, ratchet-bar *r*, and spring-bolt S, as and for the purpose specified.

WARREN H. HANCOCK.

Witnesses:

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