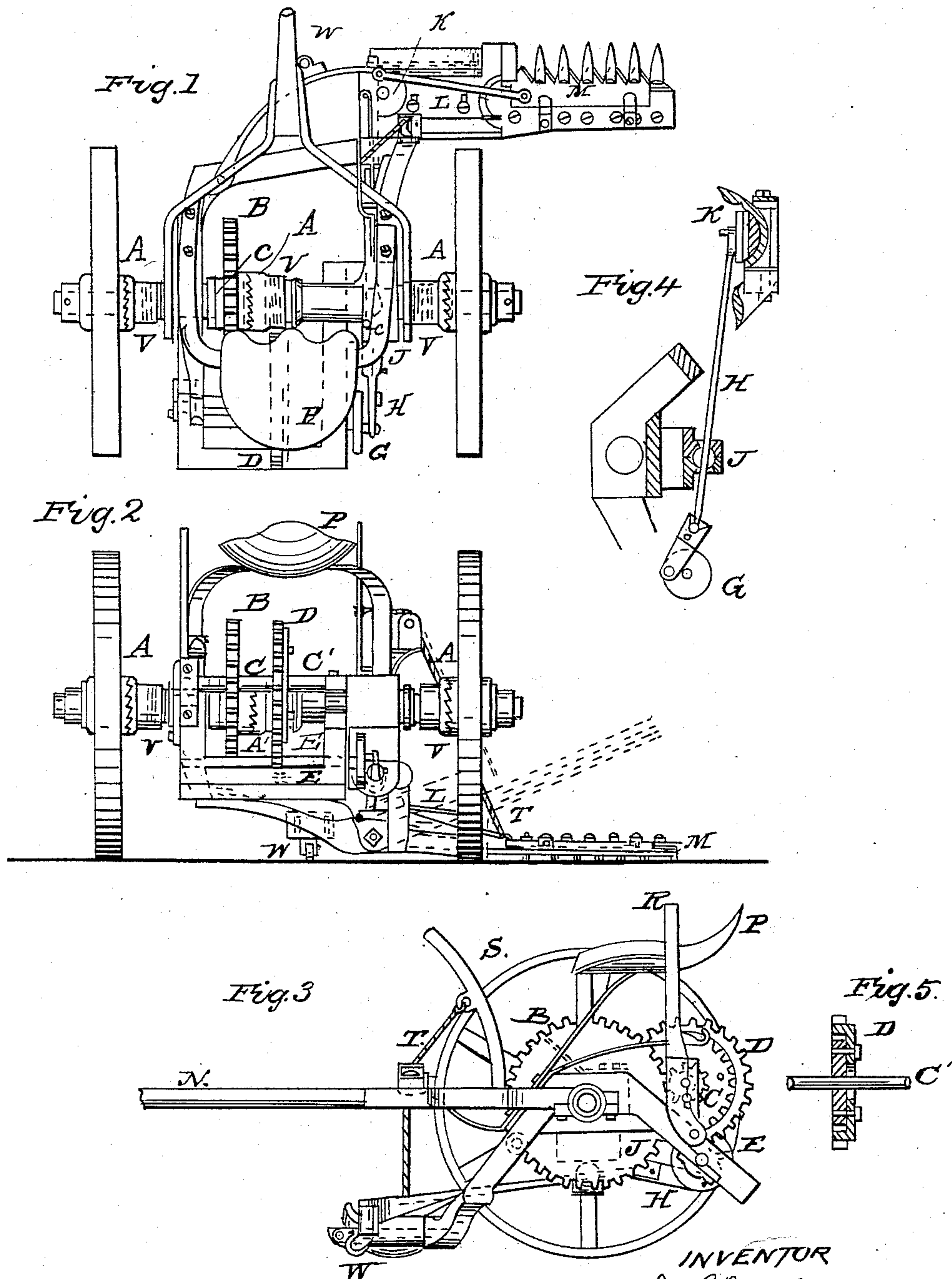


A. G. DONNELLY.

Harvester.

Patented Nov. 17, 1868.

No. 84,051.



WITNESSES  
*Edw. Mayhew*  
*Thos. Cummings*

INVENTOR  
*Alexander G. Donnelly*  
 By his atty *Wm. H. Rogers*

# United States Patent Office.

ALEXANDER G. DONNELLY, OF BREESPORT, NEW YORK.

Letters Patent No. 84,051, dated November 17, 1868.

## IMPROVEMENT IN HARVESTERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ALEXANDER G. DONNELLY, of Breesport, Chemung county, and State of New York, have invented an Improved Mowing-Machine; and I hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a top view of the mowing-machine.

Figure 2 represents a rear view of the same.

Figure 3 represents a sectional side elevation.

Figure 4 represents the connection between the gearing-devices and the cutters.

Figure 5 represents the adjustable double-toothed wheel.

The nature of my invention consists in the construction of the adjustable double-toothed wheel, as hereinafter set forth.

The tongue or shafts work independently, and the team moves regularly and easily, so that the draught is very light, and allows the machine to be drawn by one horse.

A represents the ratchet-hub wheels, with their toothed wheel B revolving upon the same axle as the carriage-wheels, and gearing into a pinion, C, which operates a separate shaft, C', that moves an adjustable toothed wheel, D.

This wheel D is adjusted by unscrewing the outer rim, removing it, and setting the shaft C', with the interior toothed wheel D, lower in the journal-boxes of the rear frame, so as to gear the interior and smaller toothed wheel D into its pinion E, to add power to the working of the knives, when required in heavy grass.

The pinion E is located upon the lower shaft E', in the rear of the machine, and drives the fly-wheel G,

that operates the pitman H, (the pitman working in a ball-joint J.)

The pitman is connected with a wrist on a horizontal wheel, K, that is placed and operates on the upper side of the cutter-frame. A rod, L, is also connected by a wrist to the wheel K, and to the upper side of the one end of the cutter-bar M, so as to give a rapid vibrating motion to the cutter-bar, with its knives.

N is the tongue or shaft operating upon the carriage-axle, and independently of the mowing-devices.

P is the driver's seat, erected above and behind the carriage-axle, so as to assist in balancing the weight of the cutter-bar frame in front, and give equilibrium to the machine.

R is a lever to throw the pinion C out of gear with the tooth-wheel B, when necessary.

S is an upright lever, attached to the cutter-bar frame by means of a cord, T, for the purpose of raising or lowering the cutter-bar frame, to correspond with the inclination of the ground.

The ratchet-hubs A A A are self-adjusting, by means of spiral springs V, on the carriage-axle, which enables the machine to be backed without operating the gearing and cutting-devices.

W is a guide-roller in front of the frame, to prevent the cutter-bar frame from dropping directly upon the ground, and enable it to pass regularly over the surface.

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

The wheel D, constructed and operating as herein described and for the purposes set forth.

ALEX. G. DONNELLY.

Witnesses:

J. FRANKLIN REIGART,

EDM. F. BROWN.