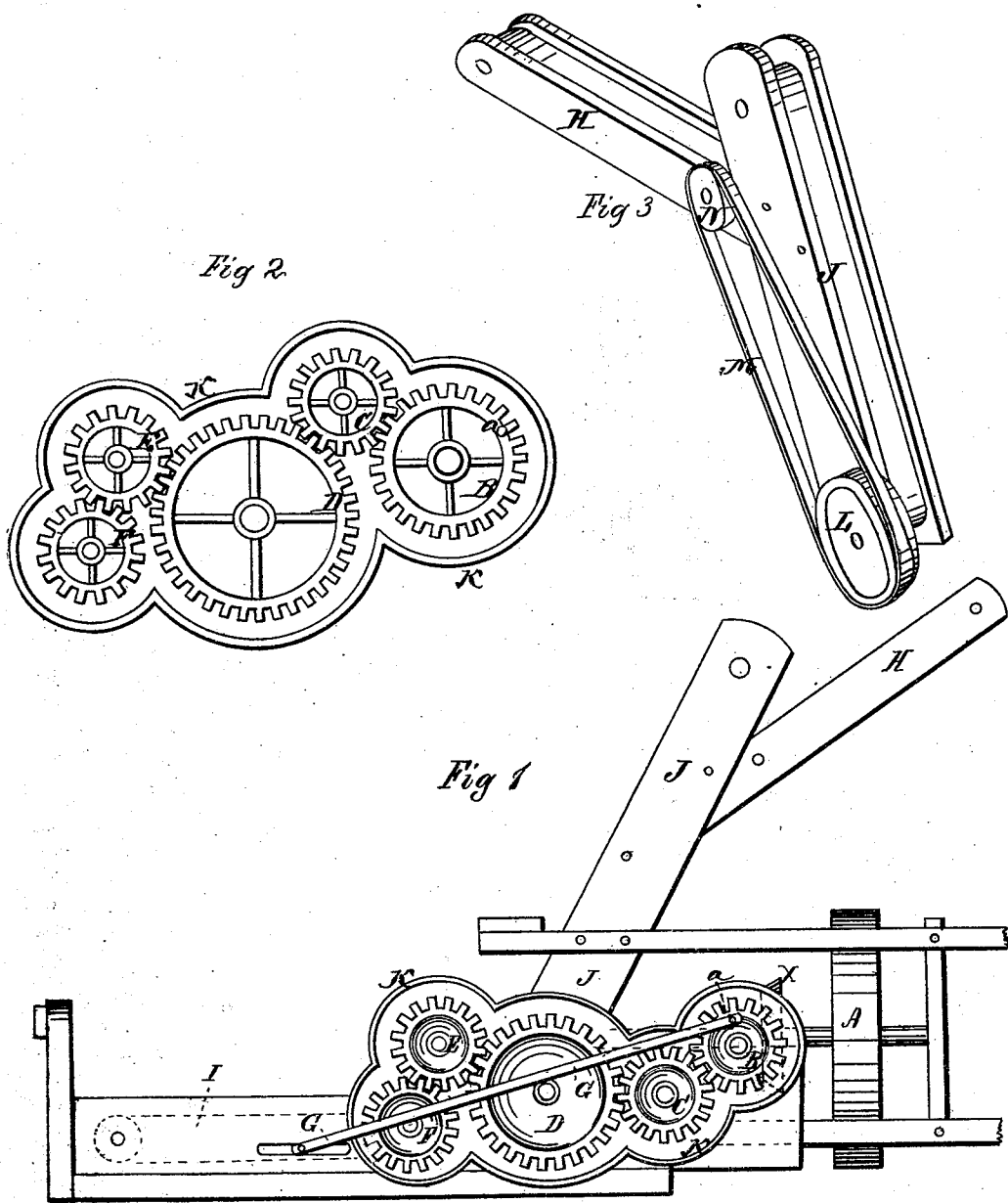


J. W. WEBSTER.
Harvesters.

No. 147,208.

Patented Feb. 3, 1874.



Witnesses.

Geo. H. Hathorn.
J. P. Webster.

Inventor.

John W. Webster.

UNITED STATES PATENT OFFICE.

JOHN W. WEBSTER, OF FLOYD, IOWA.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **147,208**, dated February 3, 1874; application filed September 24, 1873.

To all whom it may concern:

Be it known that I, JOHN W. WEBSTER, of Floyd, in the county of Floyd and State of Iowa, have invented certain new and useful Improvements in Grain-Harvesters; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in the construction and arrangement of three endless aprons for carrying, elevating, and heading the grain, with the mechanism for operating the same, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a side elevation of my invention. Fig. 2 is an enlarged view of the operating mechanism, and Fig. 3 is a perspective view of the elevator-apron and the additional third apron.

A represents the driving-wheel, upon the shaft or axle of which is a gear, *x*, connecting with a gear-wheel upon the shaft of a cog-wheel, B, and thus communicating motion to the same. I represents the horizontal apron, which delivers the grain from the sickle to the elevator-apron J, and thence to the third apron or carrier H. These aprons may all be constructed in any of the known and usual ways, and are arranged around rollers, substantially in the manner shown in Fig. 1, the apron I being horizontal, while the other two are inclined, as shown. The cog-wheel B gears with an intermediate or idle cog-wheel, C, and

this with a cog-wheel, D, which is placed upon the journal of the lower roller for the elevator-apron J. Upon the opposite journal of this roller is a pulley, L, connected by a belt, M, with a pulley, N, on the journal of the lower roller for the apron H. The cog-wheel D gears with an intermediate or idle cog-wheel, E, and this with a cog-wheel, F, which is placed upon the journal of the inner roller for the apron I. By means of the cog-gearing, as described, and the belt M, the three aprons I, J, and H are revolved in the proper directions, the third apron H delivering the grain to the wagon for the purpose of heading grain when it is so ripe that it cannot be tied in bundles. The gearing B C D E F is inclosed within a metal casing, K, to protect the same from dirt, dust, &c. This casing will usually be made of one piece of cast metal having a back, to which the gearing is secured, and a rim which extends entirely around the wheels. It is firmly bolted onto the horizontal frame carrying the apron I, and to the upright frame carrying the apron J, thus forming a firm brace for holding the two frames together, in addition to its forming a shield and securing-plate for the gearing. On the cog-wheel B is a wrist-pin, *a*, with a pitman, G, attached for running the sickle-bar.

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

The combination of the aprons I J, the metallic casing K, secured to the two frames carrying said aprons, and the gearing B C D E F, all constructed to operate substantially as and for the purposes set forth.

JOHN W. WEBSTER.

Witnesses:

J. P. WEBSTER,
M. STEWART, JR.