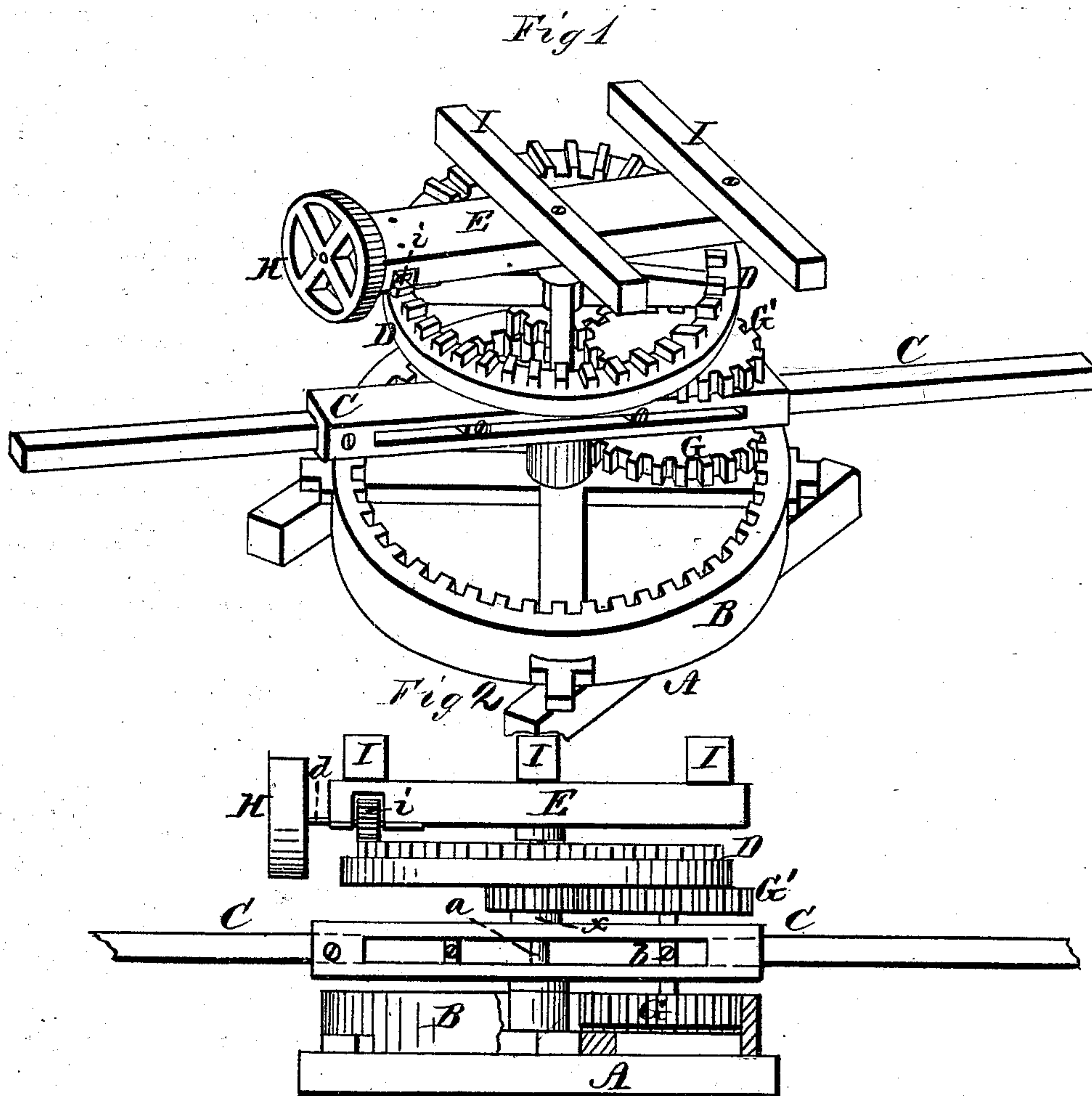


J. W. JACKSON.

Horse-Powers.

No. 149,482.

Patented April 7, 1874.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

JESSE WEST JACKSON, OF AMERICUS, GEORGIA.

## IMPROVEMENT IN HORSE-POWERS.

Specification forming part of Letters Patent No. 149,482, dated April 7, 1874; application filed March 10, 1874.

*To all whom it may concern:*

Be it known that I, JESSE W. JACKSON, of Americus, in the county of Sumter and in the State of Georgia, have invented certain new and useful Improvements in Horse-Power; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a horse-power, 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, in which—

Figure 1 is a perspective view of my horse-power; and Fig. 2 is a side elevation of the same.

A A represent the bed-sills of my horse-power, upon which is firmly secured a stationary cog-wheel, B, having the cogs around its inner circumference, said cog-wheel being provided with diametrical cross-arms, as shown. To a central hub in the stationary cog-wheel B is firmly secured a vertical king-post, *a*. C represents the sweep or lever to which the horses are attached. This sweep is placed and revolves on the stationary king-post *a*. In this lever, on one side of the stationary king-post, is a short vertical shaft, *b*, revolving in suitable bearings in the sweep. On the lower end of this shaft is secured a cog-wheel, G, which meshes with the internal cog-wheel B. On the upper end of the shaft *b* is another cog-wheel, G', which meshes with a cogged hub on the under side of a wheel, D. This wheel rests on a rim or stationary collar, *x*, on the stationary king-post *a*.

The wheels G G' are pulled around the king-post *a*, in the sweeps or levers C, by the horses, and revolve at the same time, thereby having two motions given them, and giving the wheel D two motions in the same direction. The circle of the sweep gives the wheel one motion, causing it to make one revolution for every revolution of the sweep, and the wheels G G' revolving, gives the wheel D five more revolutions, making in all six revolutions to one of the horses, so that this wheel has two motions given it in the same direction.

To the upper end of the king-post *a* is secured a beam, E, in which are formed the bearings of the shaft *d* of the band-wheel H, said shaft been provided with a pinion, *i*, which gears with cogs on the upper surface of the wheel D. On top of the beam E are secured two cross-beams or sills, I I.

This horse-power may be used with either end on the ground. The intention is to use the stationary wheel B on the ground to gin cotton; and the sills I I on the ground in thrashing grain.

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

The reversible horse-power described, consisting of the sills A A and I I, stationary wheel B, with cogs on its inner periphery, stationary king-post *a*, lever C, shaft *b*, with wheels G G', revolving wheel D, beam E, and shaft *d*, with pinion *i* and band-wheel H, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 17th day of February, 1874.

JESSE WEST JACKSON. [L. s.]

Witnesses:

HENRY R. JOHNSON,  
J. W. WHEATLEY.