

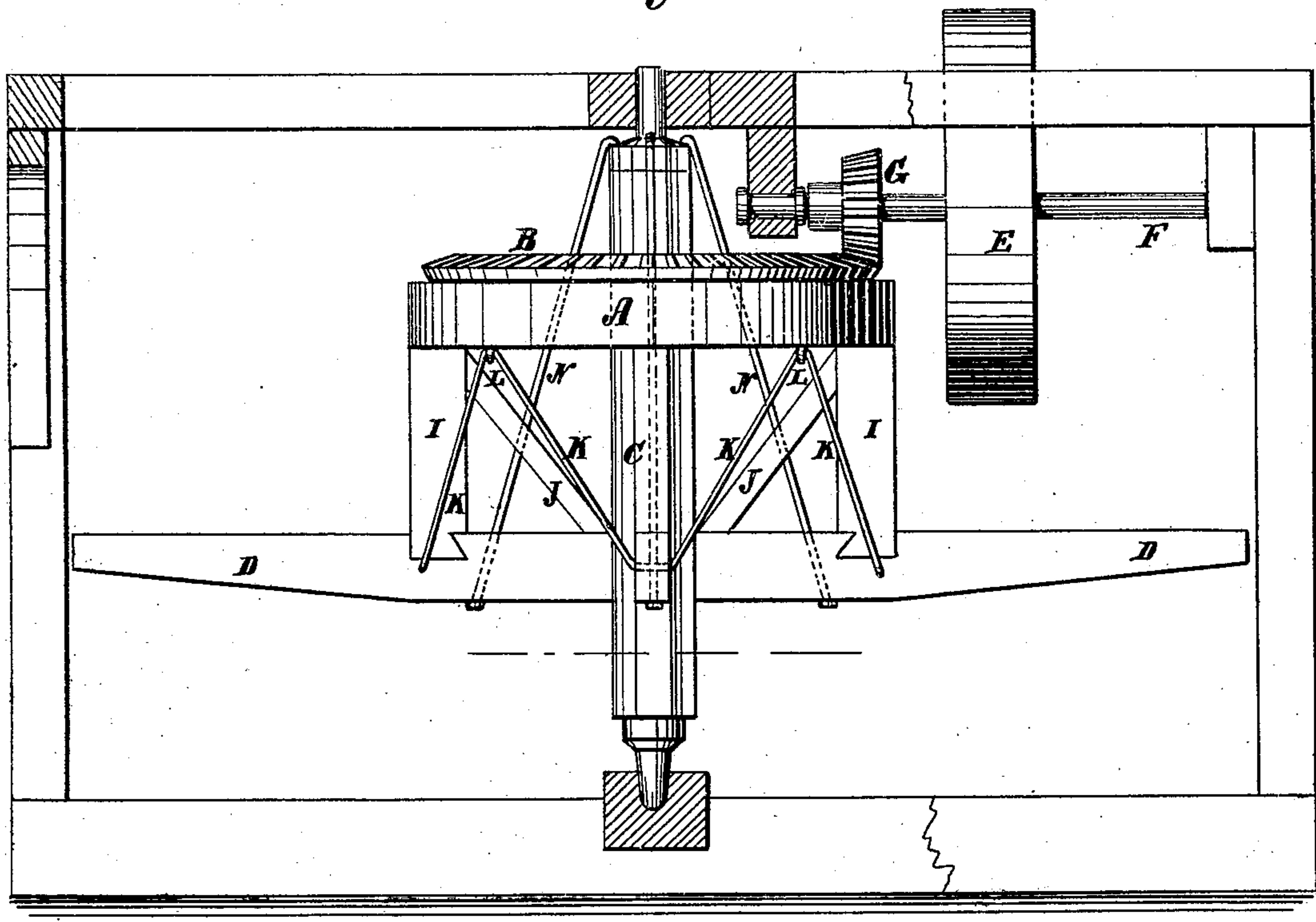
L. B. MORRIS.

Improvement in Horse-Powers.

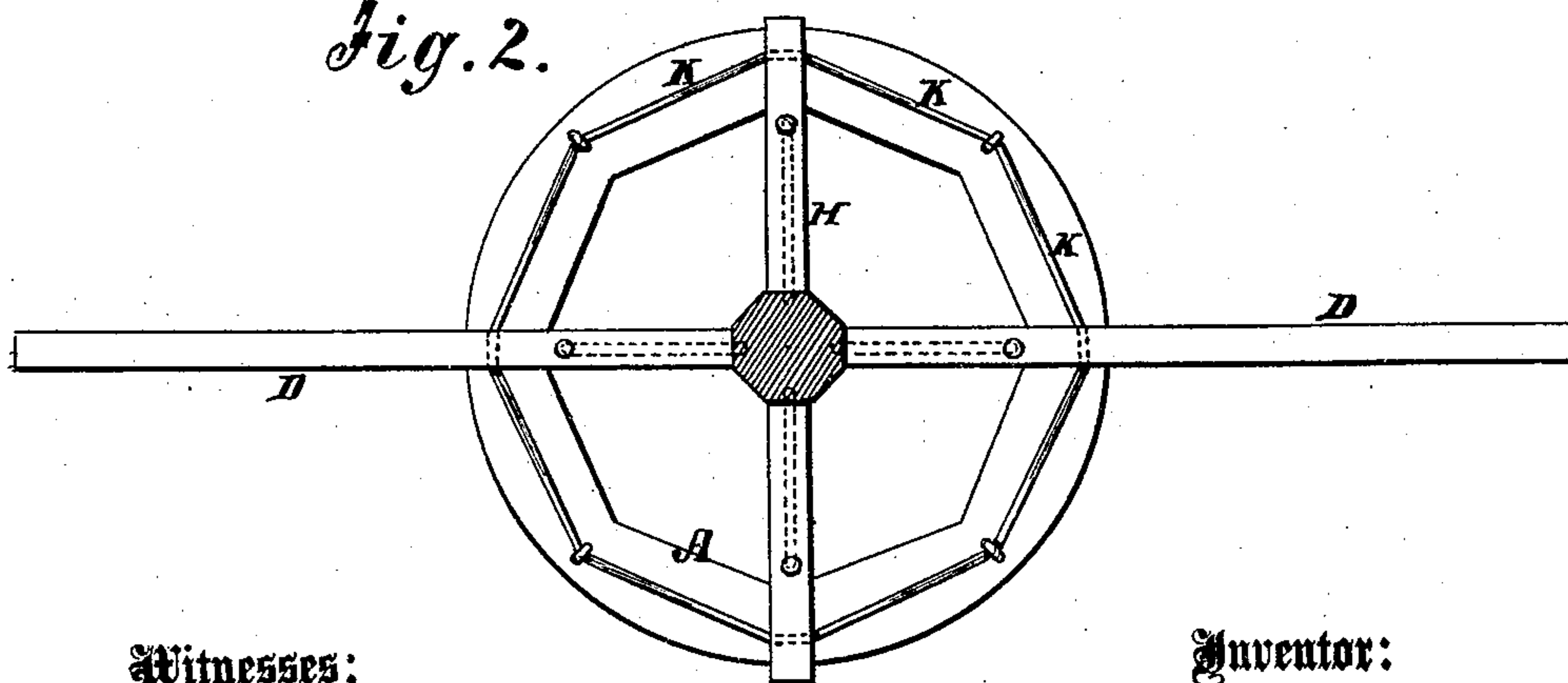
No. 132,313.

Patented Oct. 15, 1872.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*Albrecht Kendorf.*  
*C. Sedgwick.*

Inventor:

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PER

# UNITED STATES PATENT OFFICE.

LEMUEL B. MORRIS, OF HOPEFIELD, ARKANSAS.

## IMPROVEMENT IN HORSE-POWERS.

Specification forming part of Letters Patent No. **132,313**, dated October 15, 1872.

*To all whom it may concern:*

Be it known that I, LEMUEL B. MORRIS, of Hopefield, in the county of Crittenden and State of Arkansas, have invented a new and useful Improvement in Horse-Power, of which the following is a specification:

The object of this invention is to furnish a horse-power for driving cotton-gins and other machines, which shall be cheaply made, effective, and durable; and it consists in the arrangement of studs and braces with the driving-wheel and draft-levers, as hereinafter described.

In the accompanying drawing, Figure 1 is a sectional elevation of the horse-power, and Fig. 2 is a horizontal section of Fig. 1, looking upward from the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents a wooden wheel or rim, constructed of segments in a substantial manner, to the top side of which is attached the crown or driving wheel B. C is the driving-shaft. D D are the levers to which the power is applied. E is the band-wheel on the horizontal shaft F of the pinion G. The connection of the lever D with the driving-wheel is made by means of the upright studs I, and the wood and iron braces seen in the drawing. T represents a wooden brace for each of the studs I. K are iron braces attached to the driving-lever and cross-bar H and to the under side

of the wheel A, as seen in the drawing, this latter connection being made by means of staples L, when the iron rod is bent and not cut. N are supporting-rods attached to the top end of the main shaft C, extending down with the wheel and passing through the lever and cross-bar. They are fastened on the under side by screw-nuts, or in any substantial manner. The levers D are placed at a proper height from the ground for the application of the power, and necessarily some feet below the driving-wheel. The stability of the driving-wheel, therefore, depends upon the manner in which it is fastened to the driving-lever and braced. By my system of bracing this connection is made very permanent and durable, and the objections to this description of horse-power are obviated.

This horse-power may be made of any size or proportions, and with four instead of two levers.

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

In combination with the driving-wheel B and levers D, (one or more,) the wooden rim A, studs I, and wood braces J, arranged as shown and described.

LEMUEL BURKET MORRIS.

Witnesses:

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