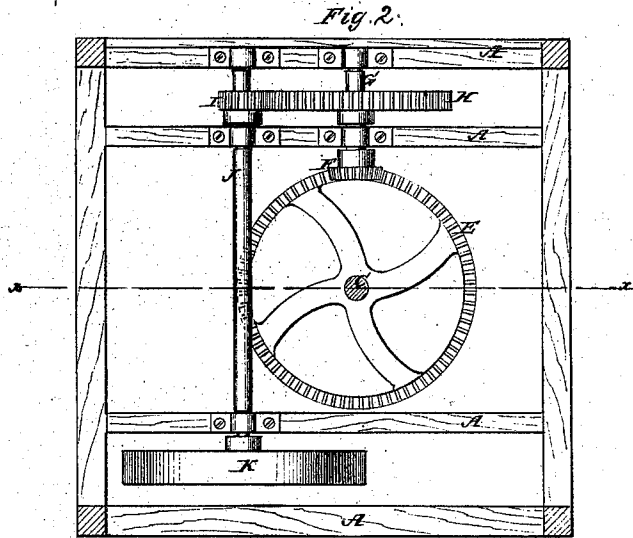
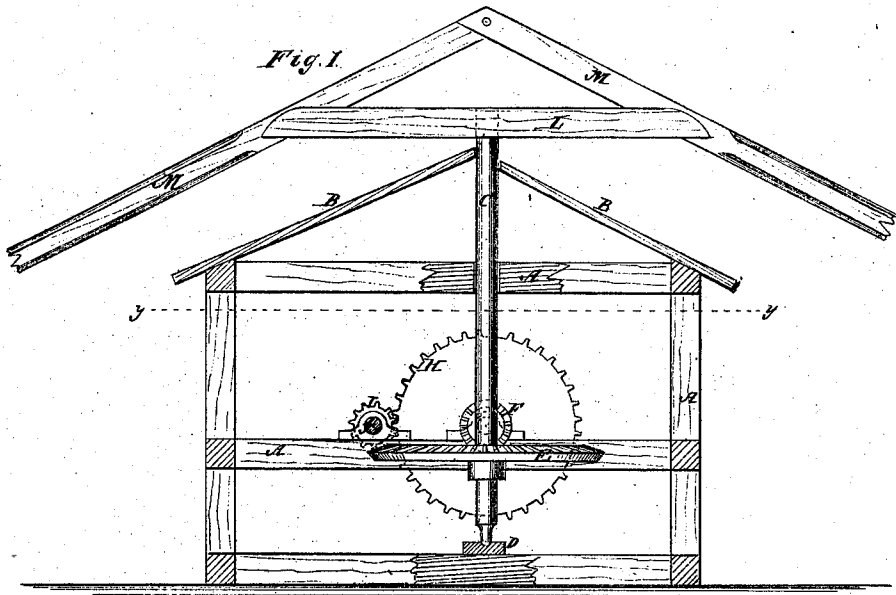


R. Quinn,

Horse Power.

No. 105,724.

Patented July 26, 1870.



Witnesses:

S. S. Mabee
Alex. F. Roberts

Inventor:

Robt. Quinn

PER

Munn & Co.
Attorneys.

United States Patent Office.

ROBERT QUINN, OF WHITEFIELD, MISSISSIPPI.

Letters Patent No. 105,724, dated July 26, 1870.

IMPROVEMENT IN HORSE-POWER.

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, ROBERT QUINN, of Whitefield, in the county of Oktibbeha and State of Mississippi, have invented a new and useful Improvement in Horse-Power; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 is a vertical section of my improved horse-power, taken through the line *x-x*, fig. 2.

Figure 2 is a horizontal section of the same, taken through the line *y-y*, fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved horse-power, which shall be so constructed and arranged as to remove the necessity of building the houses for cotton-gins, mills, and other machinery driven by horse-power, two stories high, while at the same time protecting the horse-power, machinery to be driven, and material to be operated upon, from the dust; and

It consists in the combination of the horse-power with the frame and roof of the building, as hereinafter more fully described.

A represents the frame, and B the roof of the house or building in which the horse-power and cotton-gin or other machinery to be driven are placed.

C is the vertical driving-shaft, the lower end of which revolves in a step, D, secured to the foundation frame, or other suitable support, in the ordinary manner. The upper end of the shaft C passes up through the roof B, and revolves in bearings formed in or attached to the beams of the frame A.

To the lower part of the shaft C is attached a large gear-wheel, E, the teeth of which mesh into the teeth of the small gear-wheel F, attached to the end of the short shaft G, which revolves in bearings attached to the frame A, or to other suitable supports.

To the shaft G is attached another large gear-wheel,

H, the teeth of which mesh into the teeth of the small gear-wheel I, attached to the shaft J, which revolves in bearings in the frame A, or other suitable supports.

To the shaft J is attached the wheel or pulley K, around which passes the band by which the cotton-gin or other machinery is driven, and which is made heavy, to serve, at the same time, as a pulley and fly-wheel.

To the upper end of the shaft C, above the roof B, is attached a cross-bar or driver, L, the ends of which are notched, to receive the sweeps or levers M, or are otherwise formed or attached to said levers or sweeps.

The sweeps or levers M are attached to the cross-bar or driver L in an inclined position, as shown in fig. 1, so that their upper ends may meet at an angle, as shown, and so that their outer ends may project downward into such a position that the horses may be conveniently attached to them, while at the same time they will clear the roof of the house or building when operating.

By this construction and arrangement of the horse-power, the horses walk outside of and around the building, thus keeping the dust, raised by said horses, entirely away from the machinery, while at the same time leaving the interior of the building free for the machinery and material, and greatly lessening the space required for the work to be done.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination of the vertical shaft C, long sweep or sweeps M, and cross-bar or driver L, with the operating mechanism of a horse-power, and with the roof and frame of the building, substantially as herein shown and described, and for the purpose set forth.

ROBERT QUINN.

Witnesses :

H. FONDERIN,
JAMES H. EDWARDS.