J. B. Hall,

Dog Power.

No. 97,193. Patented Nov. 23, 1869

Fig. 1.

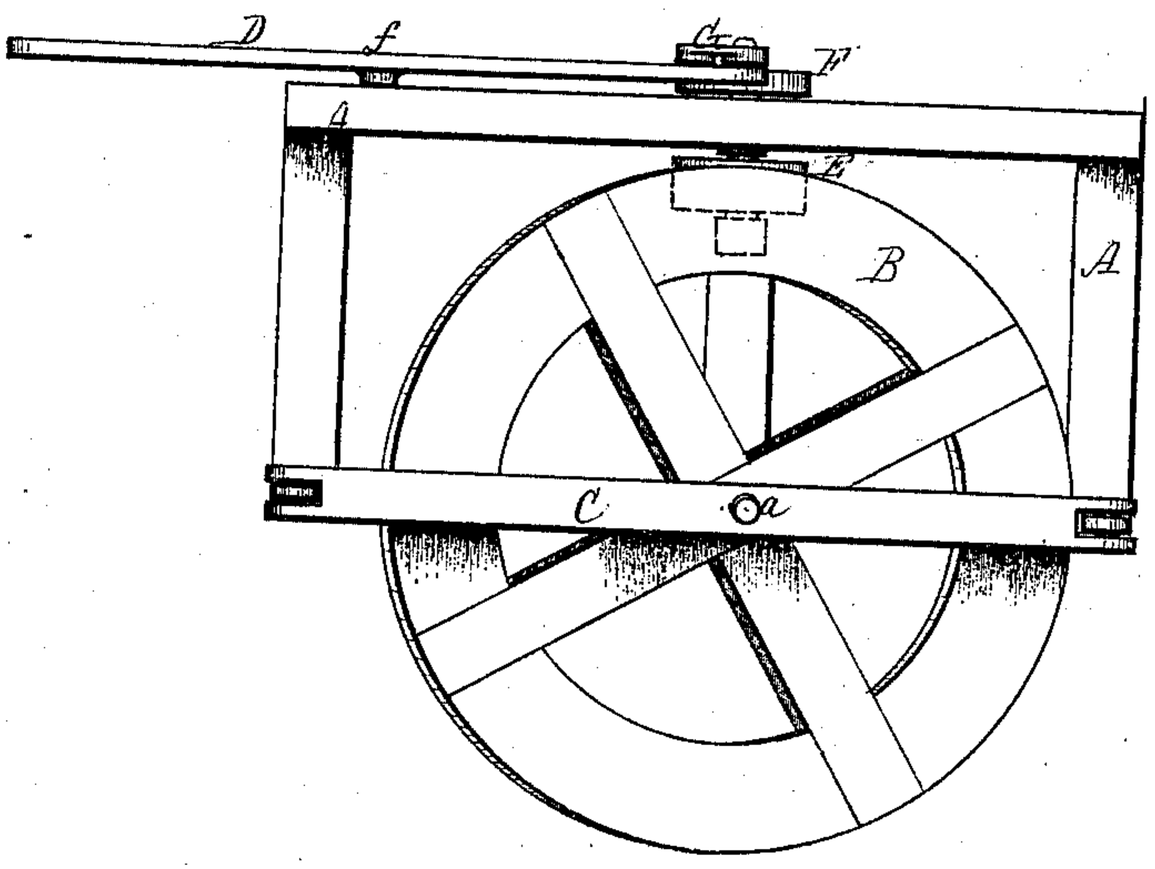
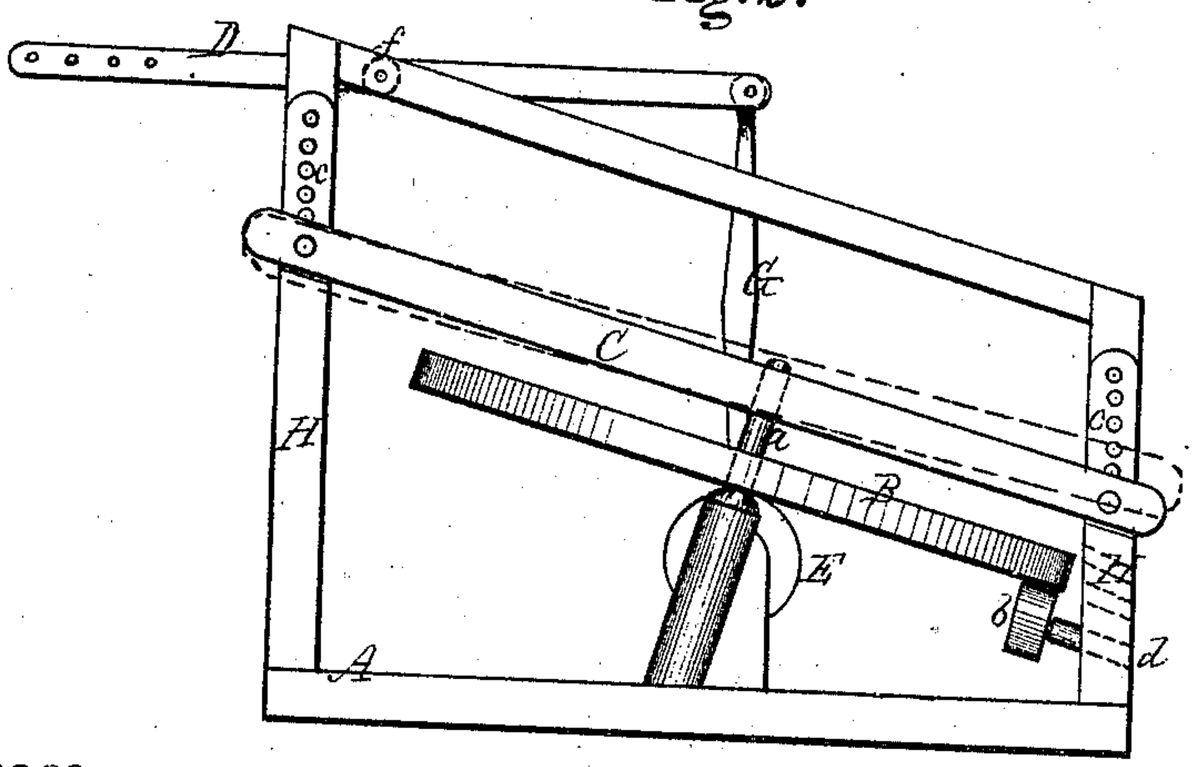


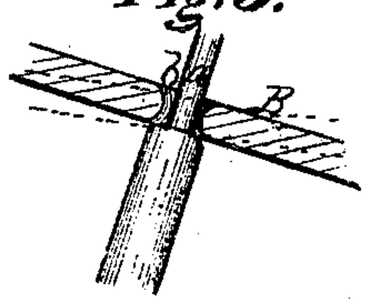
Fig. 2.



Witnesses.

Leo. H. Matt
R. F. Ogrow

Fig. 3.



Inventor.

John B. Hall,
By J. Fraser & Co.,
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United States Patent Office.

JOHN B. HALL, OF CHESHIRE, NEW YORK.

Letters Patent No. 97,193, *dated November* 23, 1869.

IMPROVEMENT IN ANIMAL-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, JOHN B. HALL, of Cheshire, in the county of Ontario, and State of New York, have invented a certain new and useful Improvement in Dog-Powers; and I do hereby declare that the following is a full and exact description of the same, referring to the accompanying drawings, in which—

Figure 1 is a plan of my improved machine.

Figure 2, an elevation of the same.

Figure 3, a section, showing the bearing of the tread-wheel on its standard.

Like letters of reference indicate corresponding parts in all of the figures.

My improvement belongs to that class in which a revolving tread-wheel bears upon a friction-gear, to give motion to the working-beam.

The invention consists, essentially, in a loose bearing of the eye of the tread-wheel upon its standard, whereby any adjustment of the angle of the same may be attained, without the use of a swinging beam or lever; also, in the same connection, in the employment of an adjustable and removable bar, which not only allows the free adjustment of the tread-wheel, but also allows it to be removed from place by simply taking off.

In the drawings—

A is the frame, of any suitable form.

B is the tread-wheel, having a loose eye, *b*, which fits on an inclined bearing, *a*, of a standard, secured to the bottom of the frame.

The looseness of the eye is such as to allow the angle of the tread-wheel to be changed, as desired, to adapt the action to animals of different weight, as indicated by dotted lines in fig. 3.

In the rear of the tread-wheel is a bearing-roller, *b'*, on which it runs.

This roller is adjusted up and down, to fit the different inclinations of the tread-wheel, by its stem or journal passing through any of a series of holes, *d*, in the frame.

On one side of the frame, at right angles to *b'*, the usual friction-gear wheel E rests under the tread-wheel, and receives motion therefrom.

On the shaft of this wheel is situated a crank, F, which gives motion to walking-beam D, through the medium of pitman G.

When the crank is at the upper end of the stroke, the walking-beam stands horizontally, the effect being such that the dasher of the churn can be changed from one hole to another in the end of the walking-beam, without making any vertical adjustment.

The upper end of bearing *a* rests in a socket of a bar, C.

This bar has a vertical adjustment by means of mortises, which slide on tenons of standards H H of the frame.

These tenons have each a series of holes, *c c*, and a bolt passing through the bar, secures the same in place. This bar can be changed to any angle, or can be entirely removed from place, in which case the tread-wheel can be also removed, by simply lifting it off from its bearing *a*.

In this invention I disclaim, broadly, the use of a tread-wheel, and also disclaim simply adjusting the tread-wheel to different angles.

This last effect is shown in a patent already issued, in which the tread-wheel is mounted on a lever, pivoted at one end, while the other moves up and down, to produce the adjustment.

My invention consists simply in making a loose eye to the tread-wheel, by which the adjustment is produced, without other attachments thereto; and in employing, in connection with the same, the adjustable bar C, which is capable, not only of changing to the different angles, to correspond with the angles of the tread-wheel, but is also entirely removable, to allow the tread-wheel, to lift off from its bearing.

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

The arrangement of the loose eye *b*, bearing *a*, and removable and adjustable bar C, when employed in connection with the tread-wheel B and friction-wheel E, in the manner and for the purpose specified.

In witness whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

JOHN B. HALL.

Witnesses:

R. F. OSGOOD,

GEO. W. MIATT.