W. P. EMMERT.

ANIMAL-POWER.

No. 170,944. Patented Dec. 14, 1875.

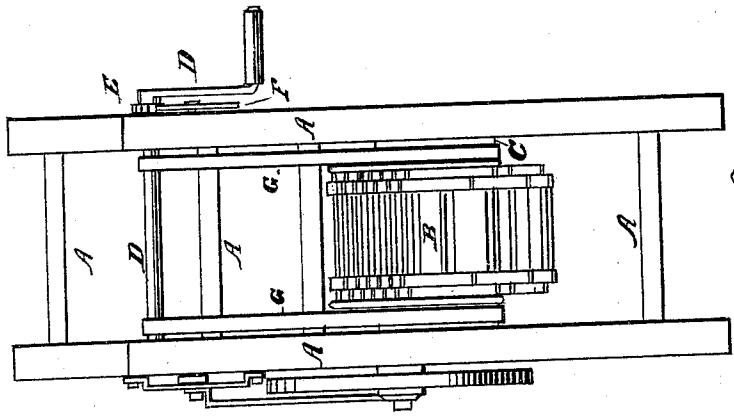

Fig. 2.

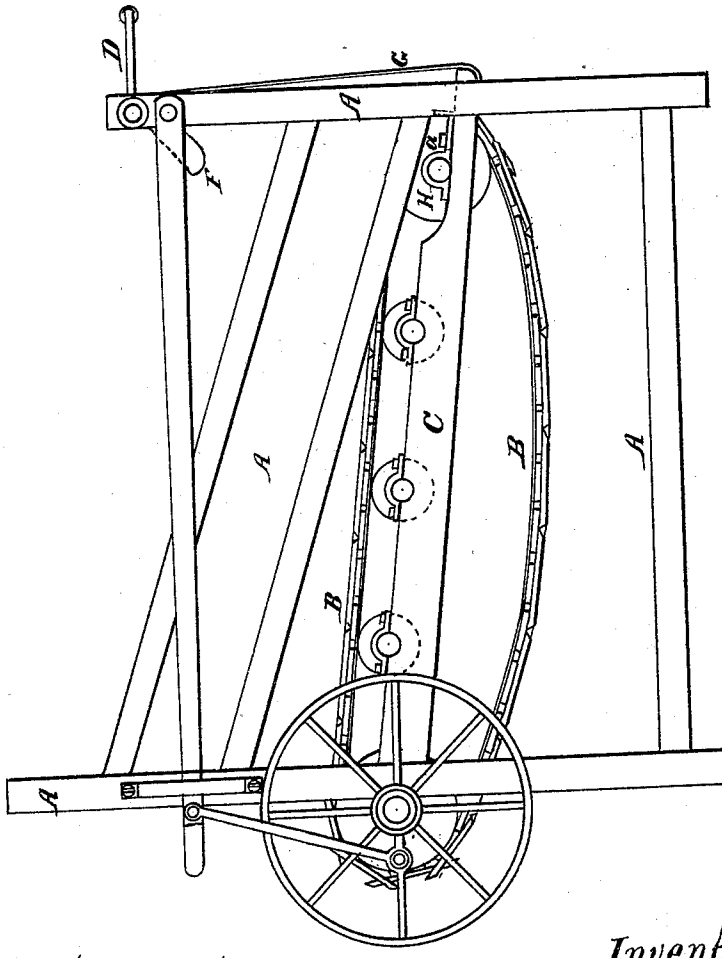

Fig. 1.

Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM P. EMMERT, OF FREEPORT, ILLINOIS.

IMPROVEMENT IN ANIMAL POWERS.

Specification forming part of Letters Patent No. **170,944**, dated December 14, 1875; application filed June 14, 1875.

To all whom it may concern:

Be it known that I, WILLIAM P. EMMERT, of Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Animal Powers, of which improvements the following is a full, clear, and exact description, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part hereof, and in which—

Figure 1 is a side elevation of a machine embodying my invention; Fig. 2, an end elevation of the same, and Fig. 3 a top view of one of the adjustable bearings.

Like letters of reference indicate like parts.

The object of my invention is to improve the means heretofore employed for the purpose of adjusting the inclination of the web.

In the drawing, A represents the frame of the machine, and B the web. These parts, as well as the web-frame and the driving mechanism, may be constructed in the usual manner, or in any well-known way, the only feature essential in connection with my invention being the vertical adjustability of the rear end of the web-frame C. D is a crank-shaft mounted in the upper part of the rear end of the frame A, and extending horizontally across it, as shown. E is a ratchet-wheel, rigidly attached to the shaft D. F is a counterbalanced or weighted stop-pawl, arranged to engage the wheel E, and to prevent the movement of the latter, except in one direction, during such engagement. G G are flexible bands attached to the shaft D and to the rear end of the frame C. Instead of attaching these bands directly to the shaft D, they may be attached to pulleys rigidly mounted on the said shaft.

In order to adjust the inclination of the web to the weight of different animals, or to regulate the speed, I turn the shaft D. If I desire to raise the rear end of the web, I turn the shaft in such a direction that the stop F will retain its contact or engagement with the wheel E. The stop will then prevent the rotation of the shaft in the opposite direction when the shaft is released by the attendant. By this means the rear end of the web may be supported at any desired height, it being understood that, in order to lower the rear end of the web, the pawl is disengaged from the ratchet, and the shaft turned in the opposite direction from that described. As soon as the stop is released farther downward movement of the web will be prevented.

I am aware that the rear end of the web in devices of this class has heretofore been vertically adjustable, and I do not here claim these features broadly; but,

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

The combination of the pivoted or tilting web-frame C, the crank-shaft D, mounted in the frame A, and arranged above the frame C, the ratchet-wheel E, rigidly mounted on the said shaft, the counterweighted pawl or stop F, pivoted to the frame A, and arranged to engage the wheel E, and the flexible connections G G, attached to the said shaft and to the rear end of the frame C, substantially as and for the purposes specified.

WILLIAM P. EMMERT.

Witnesses:

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