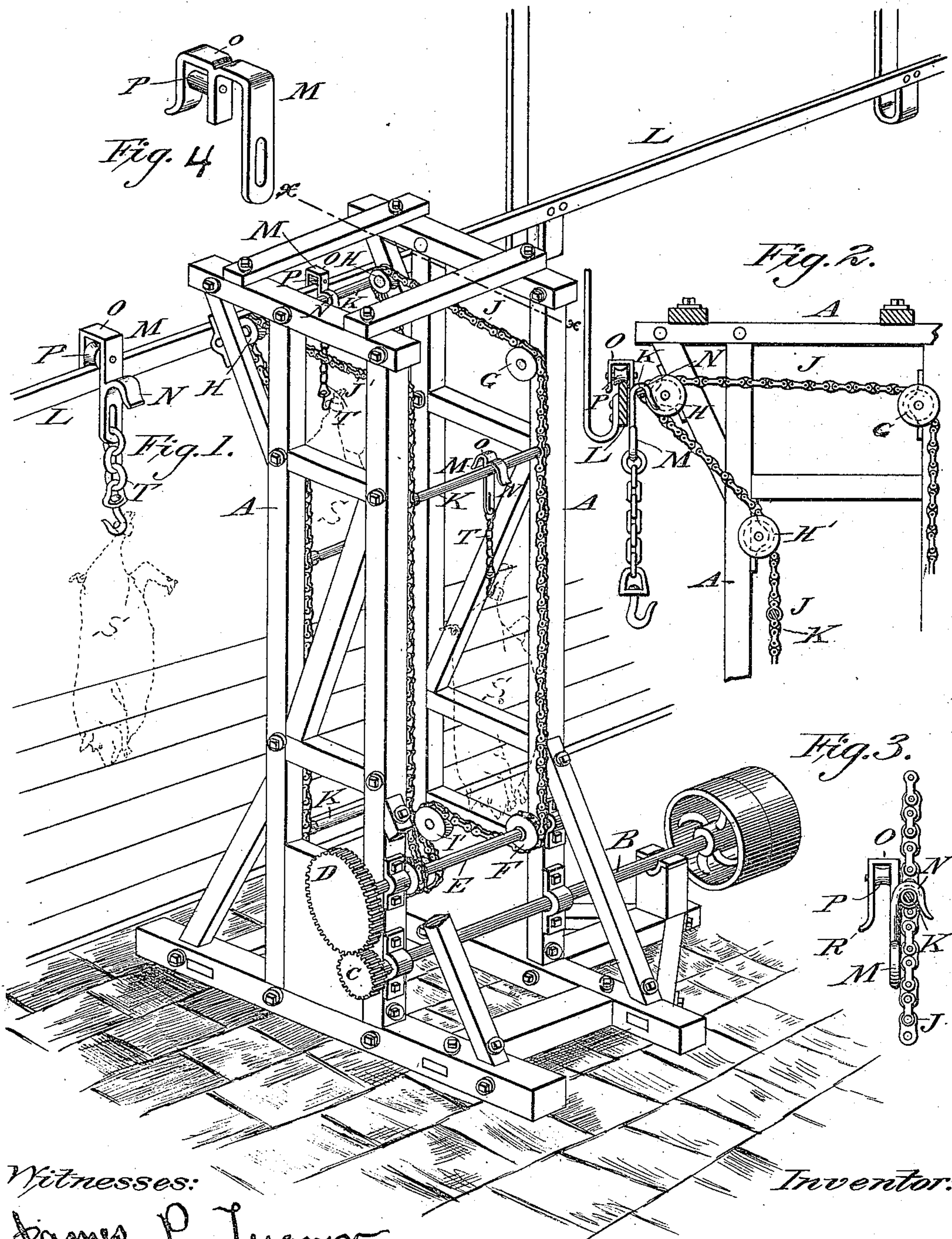


(No Model.)

D. C. MAHONEY.  
HOG HOISTING MACHINE.

No. 441,311.

Patented Nov. 25, 1890.



Witnesses:

James P. Treanor  
M. L. Laniel

Inventor:

Dennis C. Mahoney



# UNITED STATES PATENT OFFICE.

DENNIS C. MAHONEY, OF SOMERVILLE, MASSACHUSETTS.

## HOG-HOISTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 441,311, dated November 25, 1890.

Application filed November 25, 1889. Serial No. 331,582. (No model.)

*To all whom it may concern:*

Be it known that I, DENNIS C. MAHONEY, a resident of Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Hog-Hoisting Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to an improvement in machines for hoisting hogs; and the objects of my improvements are to provide means of hoisting hogs by machinery, in which the hook is raised by an endless chain and to so construct the hook that when it meets the rail it immediately adjusts itself upon the same without any fall or throw, thus preventing any injury to the hog raised. I attain these objects by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the entire mechanism. Fig. 2 is a longitudinal section on line  $x x$  in Fig. 1. Fig. 3 is a side elevation of the hook and chain with the bar in section. Fig. 4 is a modified form of the hook.

A is the frame of the machine of convenient form to contain the working parts, and the construction and adoption of which are well known to those skilled in the art.

B is the power-shaft rotated by means of pulleys thereon or any suitable device, and provided with a cog-wheel C at its end, the teeth of which mesh with the teeth of cog-wheel D on the end of the shaft E, on which shaft are sprocket-wheels F, arranged to the next upright beams of the frame, but to which arrangement I do not specially confine myself.

G are sprocket-wheels or idlers pivoted on the frame A. At the upper rear part H H' are similar sprocket-wheels or idlers pivoted to the upper front part of frame A.

I and I' are similar sprocket-wheels or idlers at the lower front part of frame A.

J J' are endless chains arranged on the sprocket-wheels on the respective sides of frame A.

K are bars fixed to the endless chains J and J' wherever the same may be desired.

L is a rail arranged and constructed as usual.

M is a double hook, having one crook N

curved backward and another crook O bent or curved forward and provided with a roller P, pivoted therein, said curved end O being formed with a lip R, as shown in Fig. 3.

S represents the hog caught to the hook and chain, which are pendent from the loop-hook M.

By means of the cog-wheels C and D the endless chains J and J' are raised by the sprocket-wheels F and moved over the sprocket-wheels pivoted to frame A—that is to say, up to the wheels G, then forward to the wheels H, then downward to the wheels H, and then to wheels I and I', and so on continuously, carrying with them the bars K.

The double hook M, to which is attached, by chain and hook, the hog to be raised, is held on the bar K by the crook N, and said bar K is raised, as described, by the endless chains J and J', whereby the hook M comes in contact with the rail L and the lip R of the crook O immediately slips upon the rail L and the crook O is adjusted thereon, the downward movement of the chains J and J' carrying the bar K away from the crook N and leaving the hook M, with its hog attached, on the rail L without jar or shock, freed from any hinderance, and the hook M, with weight, rolls smoothly along by means of the roller P in the crook O, which revolves on the rail L, the trend of which being on a slant, if desired, as shown in the drawings, allows the hook and weight to move without assistance from the raising-machine. I have shown in Fig. 3 a modified form of the hook, which may be used, if desired.

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

1. In a hog-raising machine, in combination, a slanting rail held by suitable supports, a machine provided with bars which are raised and lowered as described, a double hook having one crook bent backward and arranged upon one of the bars of said machine, and the other crook bent forward and provided with a lip, whereby on being raised by said machine and being brought in contact with said slanting rail the said crook may slip upon said rail without jarring any weight attached to said hook, all substantially as described, and for the purpose set forth.
2. In an elevating device, a double hook

consisting of a main straight portion with its upper end bent forward and outward, forming a hook, having a roller pivoted between the main portion and said bent portion, and  
5 a hook connected to the opposite side of the main portion, extending in a direction opposite to the other hook, both hooks curving downwardly, all substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 12th day of November, A. D. 1889.

DENNIS C. MAHONEY.

Witnesses:

E. C. MITCHELL, Jr.,  
H. DUNHAM.