P. F. NOONAN.

GAMBREL.

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1,159,528.

Patented Nov. 9, 1915.

Fig. 1.

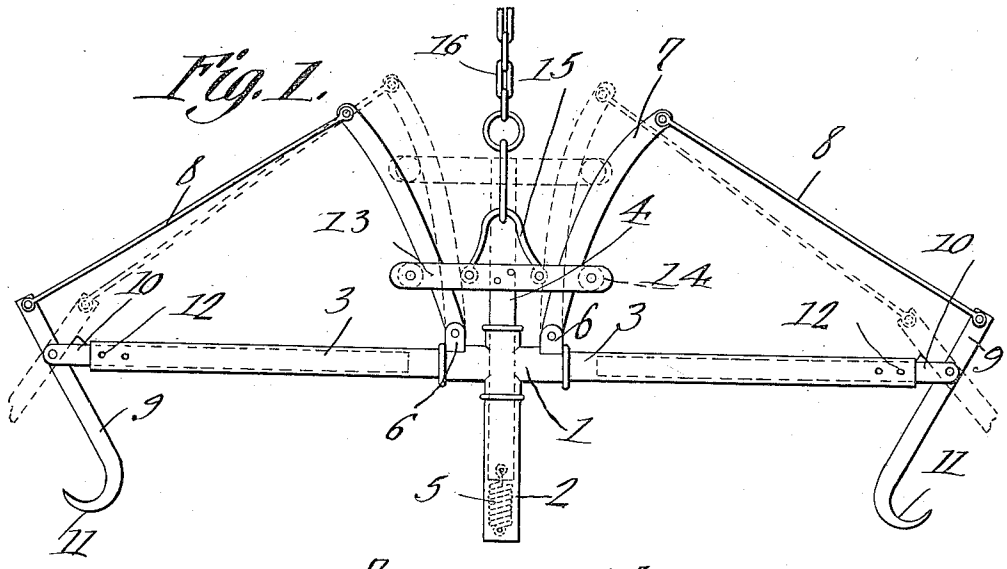
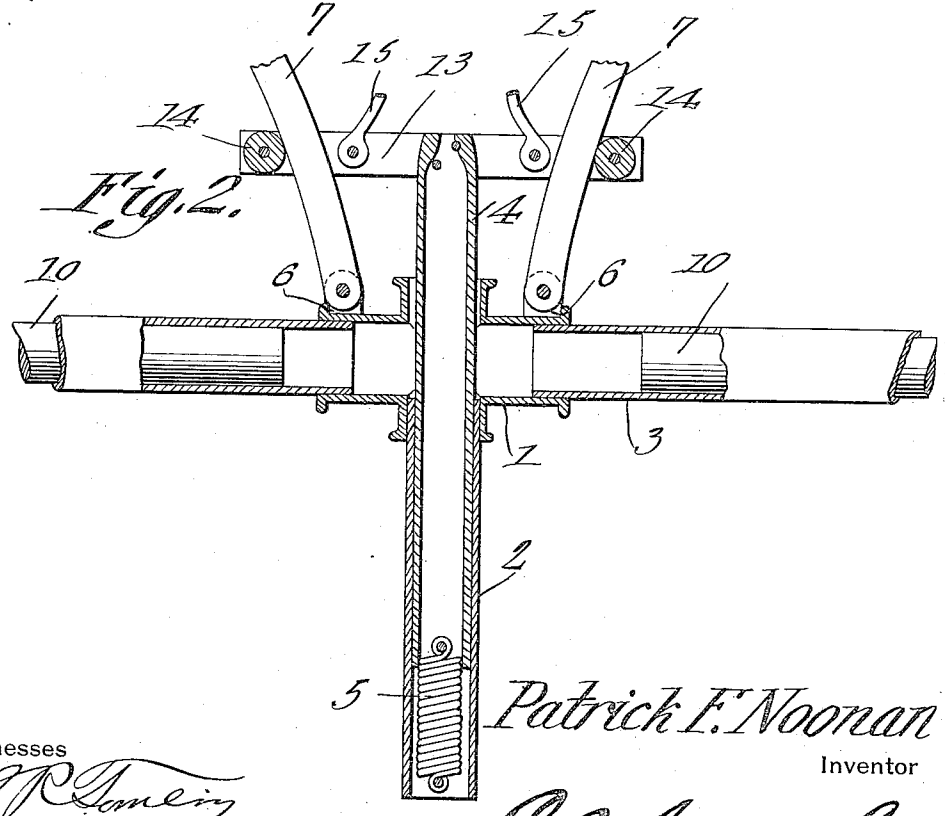


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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GAMBREL.

1,159,528. Specification of Letters Patent. Patented Nov. 9, 1915.

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To all whom it may concern:

Be it known that I, PATRICK F. NOONAN, a citizen of the United States, residing at Noonan, in the county of Divide and State of North Dakota, have invented a new and useful Gambrel, of which the following is a specification.

This invention relates to gambrels for use by butchers, one of the objects of the invention being to provide means whereby during the operation of splitting a carcass the hind quarters will be pressed apart, thus to facilitate the splitting operation, the pressing apart or spreading of the quarters being set up by the action of the gambrel due to the weight of the carcass supported thereby.

A further object is to provide a gambrel which is simple in construction and which can be adjusted to support animals of different sizes.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is an elevation of a gambrel embodying the present improvements, one of the positions of the parts being indicated by dotted lines. Fig. 2 is an enlarged view partly in elevation and partly in section of the middle portion of the gambrel.

Referring to the figures by characters of reference 1 designates a fourway coupling or joint having a depending tubular arm 2 and oppositely extending tubular arms 3. Slidably mounted within the joint 1 and extending upwardly therefrom is a stem 4 the lower portion of which is connected by a spring 5 to the lower portion of arm 2 so that the stem is thus held normally pulled downwardly relative to the joint 1. Ears 6 extend from the joint 1 and have curved links 7 pivotally connected to them, each of these links having a rod 8 pivoted to it and to one end of a lever 9. The levers 9 are pivoted in the outer ends of rods 10 adjustably mounted within the tubular arms 3, the lower ends of the levers being hooked as shown at 11. Rods 10 are adapted to be held against movement relative to the arms 3 by any suitable means, such as pins 12 inserted transversely therethrough.

Secured to the upper end of the stem 4 is a cross head 13, the links 7 being extended loosely through this cross head and being engaged preferably by antifriction rollers 14 mounted in the outer end portions of the cross head. A bail 15 is secured to the central portion of the cross head and is connected to a chain 16 or other suitable supporting means.

It is to be understood that the spring 5 is sufficiently strong to hold the joint 1 normally pressed upwardly close to or against the cross head 13, at which time the links 7 are pressed away from each other and the levers 9 are caused to converge downwardly. When a carcass is placed with one leg in engagement with each hook 11 the weight of the carcass will cause the arms 3 and the parts connected thereto to move downwardly along the stem 4, thus elongating spring 5. At the same time the upwardly diverging links 7 will travel downwardly within the cross head 13 and the rollers 14 will operate to press the links toward each other so as thus to swing levers 9 and cause them to exert a spreading action upon the engaged portion of the carcass. Consequently during the splitting of the carcass, the levers 9 will constantly pull in opposite directions thereon so that the splitting operation will be expedited. As soon as the carcass is removed from the gambrel, the spring 5 will return the various parts to their initial positions.

What is claimed is:—

1. A gambrel including a supporting structure, opposed carcass engaging levers, a connection between the levers and slidably mounted relative to the support, a yieldable connection between the support and said connection between the levers, and means operated by the movement of said last named connection under the weight of a carcass supported by the levers, for actuating said levers to spread the supported carcass.

2. A gambrel including a supporting structure, oppositely extending carcass engaging and supporting levers, a connection between the levers and slidably mounted on the supporting structure, yieldable means for holding said connection normally in a

predetermined position, links pivotally attached to said connection and slidably engaging the supporting structure, said links diverging upwardly, and connections between the links and the respective levers, said links and connections constituting means for swinging the levers to spread the supported carcass during the downward movement of the levers and their connection under the weight of said carcass.

3. A gambrel including a cross head, a stem depending therefrom, a structure slidably mounted on the stem and including oppositely extending arms, upwardly diverging links pivotally connected to the arms and slidable within the cross head, oppositely disposed levers pivotally connected to the arms, connections between said levers and the links, and a yielding connection between the stem and the slidable structure.

4. A gambrel including a cross head, a stem depending therefrom, means engaging the cross head for holding it suspended, a structure slidably mounted on the stem, said structure including oppositely extending arms, oppositely disposed carcass engaging levers pivotally connected to the respective arms, upwardly diverging links pivotally connected to the arms and slidably mounted within the cross head, connections between said links and the levers, and a yieldable connection between the stem and the slidable structure.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

PATRICK F. NOONAN.

Witnesses:

C. J. WINTER,

C. S. MILLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."