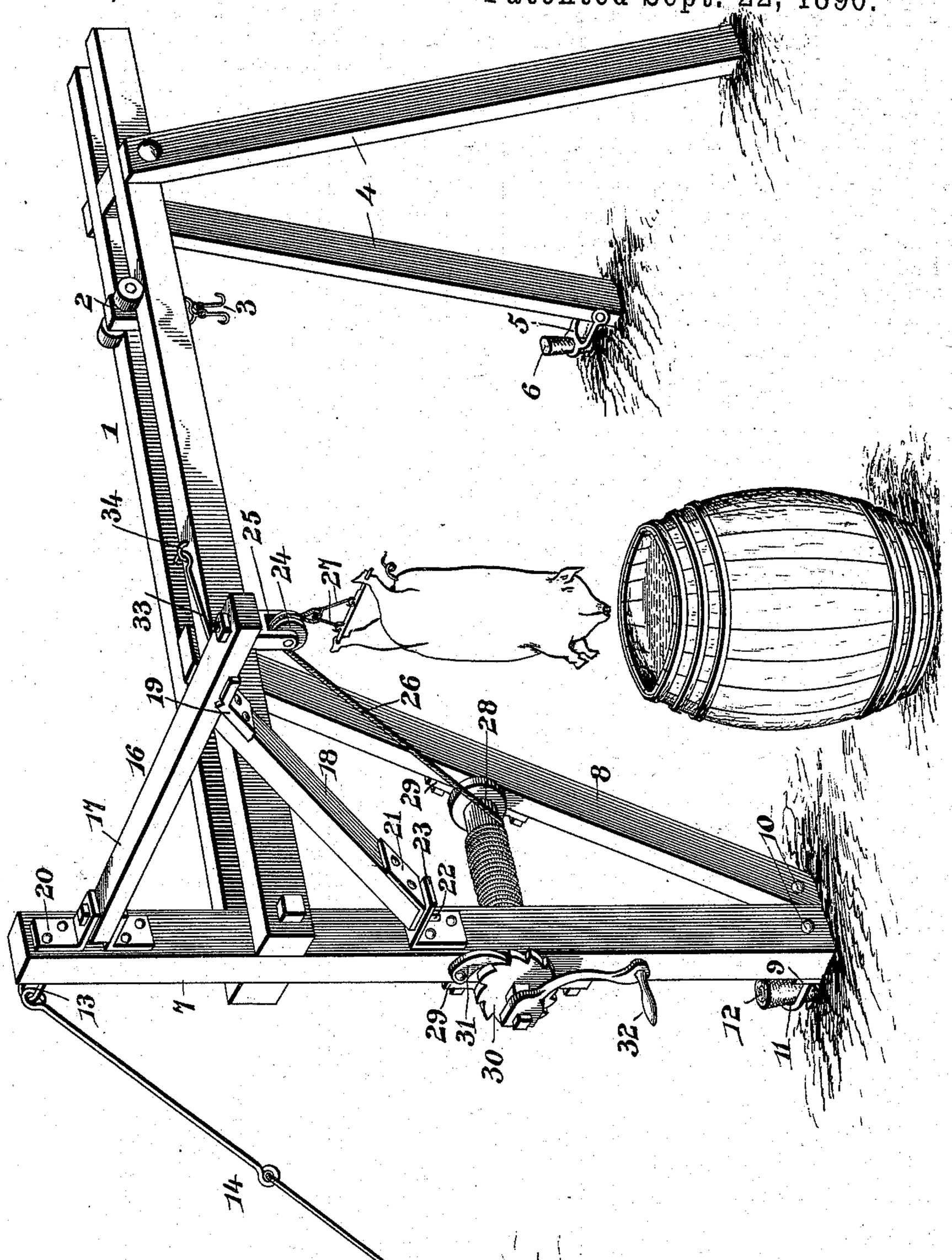
(No Model.)

D. W. INMAN.

HOG SCALDING APPARATUS.

No. 568,028. Patented Sept. 22, 1896.



Witnesses

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UNITED STATES PATENT OFFICE.

DAVID W. INMAN, OF VERSAILLES, OHIO.

HOG-SCALDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 568,028, dated September 22, 1896.

Application filed March 17, 1896. Serial No. 583,581. (No model.)

To all whom it may concern:

Be it known that I, DAVID W. INMAN, a citizen of the United States, residing at Versailles, in the county of Darke and State of Ohio, have invented a new and useful Hog-Scalding Apparatus, of which the following is a specification.

This invention relates to hog-scalding apparatus and is in the nature of an improvement upon the construction shown and described in a prior application, Serial No. 563,654, filed September 25, 1895.

The principal object of the present invention is to provide, in connection with a suitable supporting-frame and an elevated track having traveling carriers mounted thereon, a horizontally-swinging frame with hoisting apparatus whereby the hogs may be easily handled, submerged in the scalding-tub, and after the hair has been scraped from the hogs and while the same are still suspended from the crane the latter may be swung horizontally into proximal relation to the elevated track for enabling the hogs to be transferred from the hooks of the hoisting device to those of the carrier. These and other objects will be set forth at length in the ensuing description.

The invention consists in certain novel features and details of construction and arrangement of parts, as hereinafter fully described, illustrated in the drawing, and finally pointed out in the claims.

The accompanying drawing is a perspective view of the improved structure and apparatus for scalding, butchering, and handling hogs.

Referring to the accompanying drawing, 1 designates an elevated track similar to that described in my former pending application referred to, the same comprising parallel longitudinal members spaced apart sufficiently to receive between them suitable carriers 2, having rollers which run upon the track and provided with depending hooks 3, from which the hog is suspended after the scraping process. At one end this elevated track is supported upon diverging legs 4, which are bolted or otherwise suitably connected at their upper ends to the track, and one or both of which is provided at or near its lower end with a clevis or anchoring-loop 5, through which a stake 6 is inserted and driven into the ground, the same serving to anchor the frame of the apparatus and prevent it from tipping over.

The elevated track 1 is supported at its opposite end by means of a vertical standard 7, which rests upon the ground and is received between the spaced ends of the parallel members of the track, being bolted in place and extended for a considerable distance above the track for the purpose of giving the necessary elevation to the swinging frame to be hereinafter described.

8 designates an oblique brace, which is interposed between the lower end of the standard 7 and the track 1, and rigidly connected to both, thus bracing the frame longitudinally. A metal plate or strap 9 connects the lower ends of the standard 7 and brace 8, being secured thereto by bolts or rivets 10, and said plate or strap is provided with a loop or staple 11, through which is inserted a stake 12, the same being driven into the ground and serving to anchor that end of the frame. The standard 7 also has at its upper end an eye 13, in which is received a guy-rod or metal stay 14, the latter having at its outer and lower extremity an eye through which an anchoring-stake 15 is inserted and driven into the ground.

Upon the opposite side of the standard 7 to that upon which the guy-rod or stay 14 is arranged is a horizontally-swinging crane 16, comprising a horizontal arm 17 and an inclined brace 18, interposed between the projecting end of the arm 17, to which it is connected rigidly by a metal bracket 19 and the standard 7. The inner end of the horizontal arm 17 is connected, pivotally, to the standard 7 by means of a pair of L-shaped plates 20, rigidly connected to the standard and having their laterally-projecting portions arranged in parallel relation and spaced apart to receive between them the end of the arm 17, which is then pivotally secured by a pin or bolt passing through it and the said plates, as shown. The lower inner end of the inclined brace 18 has an angle-plate 21, secured rigidly thereto and provided with a depending pintle 22, which enters and has its bearing in an opening in the horizontal portion of an L-shaped plate 23, secured to the standard 7 at the

proper elevation. The pivotal connection of the horizontal arm 17 and the inclined brace 18 with the standard 7 are in vertical alinement, so that the crane will swing easily in a horizontal plane.

The horizontal arm 17 carries at its swinging extremity a grooved pulley 24, journaled in a fork 25, having a swiveled connection with said arm. Over this pulley runs a hoisting-rope 26, having at its outer extremity pendent hooks 27, upon which the hog may be suspended, the opposite end of said rope being wound upon a windlass 28, the shaft of which is mounted in bearings 29, secured to the standard 7 and brace 8, said shaft being extended beyond its bearing on the standard 7, and having mounted fast thereon a ratchet-wheel 30, with which a gravity-dog 31 engages, the said dog being mounted on the standard 7. The extremity of the windlass-shaft beyond the ratchet-wheel 30 is squared to receive a detachable crank-handle 32, by means of which the windlass may be operated for raising and lowering a hog. During the operation of scalding the hog the crane may be held fixed by means of a diagonal stay-rod 33, connected at one end to the crane and hooked at its opposite end to engage an eye or staple 34 on the elevated track.

The crane is swung over the place where the hogs have been deposited, and the hooks 27 lowered so that they may be engaged with one of the hogs. By operating the windlass the hog is now lifted and the crane then swung horizontally to bring the hog over the scalding-tub, the crane being made secure at this point by means of the stay-rod 33. After the hog has been scalded the crane may be released and swung to one side or the other and the hog deposited temporarily upon a table or any other support, the hair being then removed. This completed, the hog is again elevated by operating the windlass, and the crane is then swung toward the track 1 into such position that the hooks 3 of the carrier may be engaged with the eyes of the gambrel-stick or the feet of the hog, as the case may be. The hooks 27 are now disengaged, after which the crane may be swung outward again, and the hog, being now suspended from the carrier, may be moved longitudinally of the track, where it may be cleaned and otherwise prepared for the market.

The apparatus is very simple in construction, is especially adapted for the use of farmers who do their own butchering, and will be found of great benefit and utility to such classes.

The apparatus is light and portable, and may be stored away when not required for use.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new is—

1. The combination with an elevated track having traveling carriers thereon and upheld by a suitable supporting-frame, of a horizontally-swinging crane fulcrumed on said frame, the said crane being provided with means for suspending a hog and adapted to be swung into proximal relation to the track for enabling the hog to be transferred therefrom to one of the carriers, and a stay interposed between the crane and said track for the purpose of holding the crane stationary, substantially as and for the purpose described.

2. The combination with a post or standard, of a horizontally-swinging crane fulcrumed thereon and provided with means for suspending and hoisting a hog, an elevated and extended track extending from said post or standard and supported by suitable standards and one or more carriers movable longitudinally of said track, the track being substantially in line with the fulcrum of the crane whereby the latter may be swung into proximal relation to the track for enabling the hog to be transferred therefrom to one of the carriers, substantially as described.

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

DAVID W. INMAN.

Witnesses:

AUGUST BEGSEN,

HARRY DIDOT.