M. L. WINANS.

STOCK CRATE.

APPLICATION FILED JUNE 4, 1915.

1,182,828.

Patented May 9, 1916.

2 SHEETS—SHEET 1.

Fig. 1.

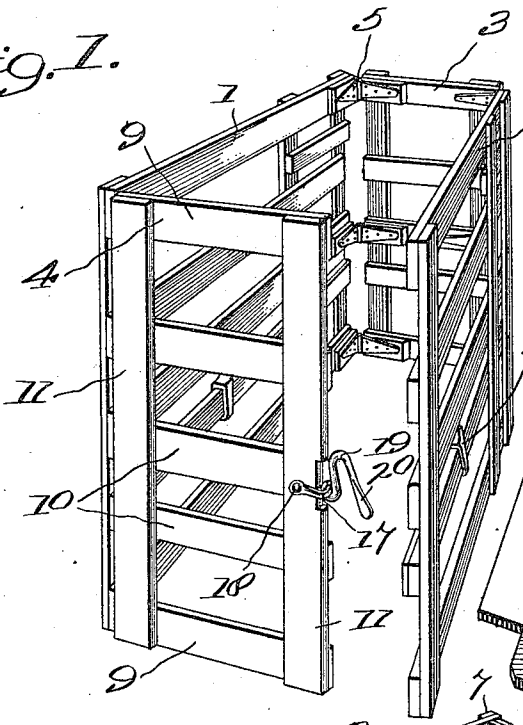
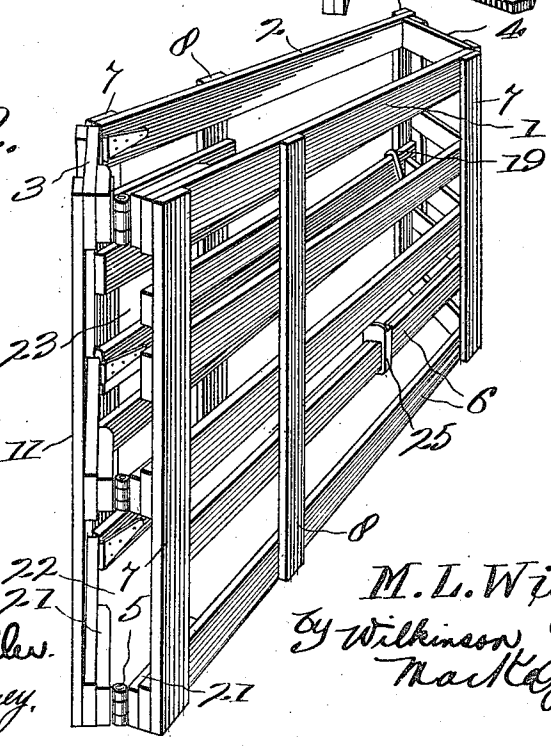


Fig. 7.

Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

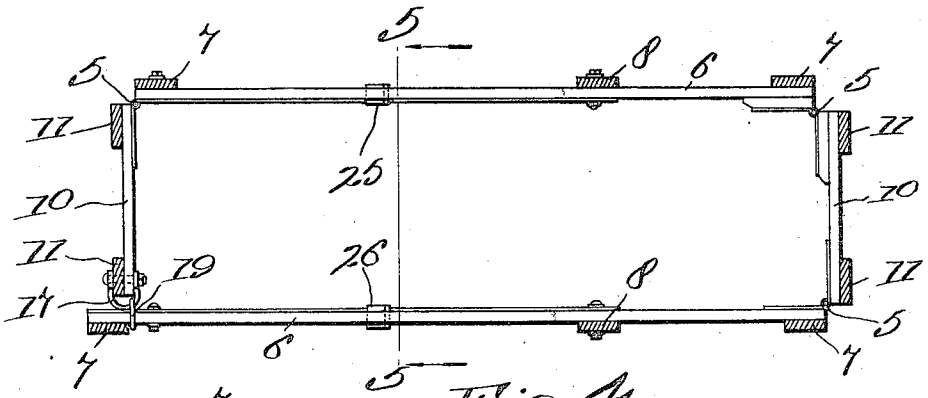
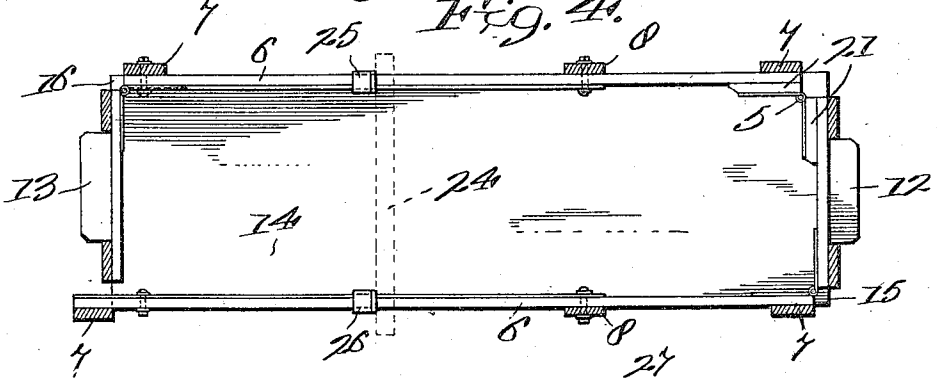


Fig. 4.



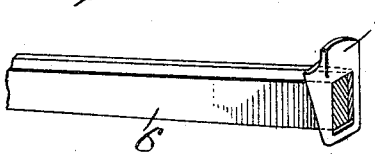
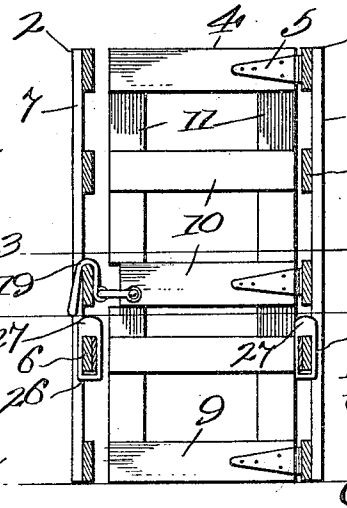


Fig. 6.

Fig. 5.



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UNITED STATES PATENT OFFICE.

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STOCK-CRATE.

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Application filed June 4, 1915. Serial No. 32,108.

To all whom it may concern:

Be it known that I, MYRON L. WINANS, a citizen of the United States, residing at Waco, in the county of McLennan and State of Texas, have invented certain new and useful Improvements in Stock-Crates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to improvements in stock crates, and has for an object to provide an improved crate for catching, loading and handling hogs and the like stock.

Another object of the present invention resides in providing a convertible crate and trap for securely holding the animal while ringing its nose and during such operation as castrating, etc.

It is a further object of the present invention to provide an improved stock crate of the above character which will be constructed for convenient handling, and which may be folded into small compass for transportation.

With these and other objects in view the invention consists in the novel details of construction and combinations of parts more fully hereinafter disclosed and particularly pointed out in the claims.

In the accompanying drawings forming a part of this application, and in which similar reference symbols indicate corresponding parts in the several views, Figure 1 is a perspective view of an improved crate constructed in accordance with the present invention. Fig. 2 is a similar view illustrating the crate arranged as a trap. Fig. 3 is a horizontal sectional view taken on the line 3—3 of Fig. 5. Fig. 4 is a similar view taken on the line 4—4 of Fig. 5. Fig. 5 is a vertical sectional view taken on the line 5—5 of Fig. 3. Fig. 6 is a fragmentary perspective view of a detail; and Fig. 7 is a perspective view of the removable partition.

Referring more particularly to the drawings, wherein one embodiment of the present invention is illustrated, 1 and 2 designate the sides and 3 and 4 the ends of the improved crate, the same being connected together by hinges 5 in substantially parallelogram arrangement, and one of said ends 4 being left detached to constitute a swinging gate.

The sides are each constructed of a plurality of horizontally-disposed rails 6, joined together in spaced and parallel relation by vertical end slats 7, and an intermediate slat 8 located in proximity to the rear slat 7 adjacent the end 3; and the side 2 is advantageously elongated over the side 1 to receive the free end of the gate 4.

The ends 3 and 4 are similarly built up of transverse end and intermediate rails 9 and 10 secured to standards 11; said rails 9 and 10 constituting a vertical series of ledges for receiving and seating the reduced ends 12 and 13 of a removable partition 14. Adjacent the reduced ends 12 and 13, the partition 14 is formed with shoulders 15 and 16, fitting against the standards 11 for securely positioning and maintaining the same against accidental displacement.

The gate 4 is provided with a yoke 17 pivoted as indicated at 18, and carrying a latch or hook 19 with an elongated bill 20 for engaging over the adjacent rail 6 of the side 2 and locking the trap in closed position.

As advantageously disclosed in Fig. 2, the improved crate is adapted to be arranged in rhombic formation with the end 3 and side 1 presenting a V-shaped corner, and said side and end are spaced apart by blocks 21 located beneath the hinges 5 to provide openings 22 and 23 for receiving the nose of a hog or other animal. In such formation the device constitutes a trap where the animal is held while the operation of ringing the nose may be performed; and for the purpose of preventing the animal backing out of position there is provided a bar 24 disposed crosswise of the crate and engaging a pair of sliding clamps 25 and 26 mounted on the horizontal rails 6 of the sides 1 and 2.

The clamps 25 and 26 are shown in Fig. 6 to be preferably formed of a casting provided with an opening slidably mounted over the rail 6, and having each an upstanding lug 27 against which the bar 24 is adapted to engage, and any force imposed thereon will act to cant the clamps and bind the same against sliding movement. It will thus be understood that the bar 24 may be readily advanced and retreated in securing and removing the animal, and may be adjusted to various positions to hold animals of different sizes.

The swinging gate 4 is opened to admit the animal by disengaging the hook 19 from the rail 6, which provides a hinged connection for permitting the crate to be moved to the several positions shown or folded down flat for transportation, or when not in use.

Without the partition 14 the crate provides an excellent device for loading stock, as the same do not have to be lifted and carried but may be made to walk by pulling or pushing the crate. Moreover, the crate may be employed to secure the animals in position during operations, such as castrating; and this may be effected by tying the animal to the crate while in an upright position and subsequently inverting the crate, when the animal will be exposed on its back. The partition may be readily inserted or removed through the gate 4, and brought to any desired position, resting on the ledges provided by the rails 10 of the ends 3 and 4, and may be contained within the sides 1 and 2 when the crate is collapsed for transportation.

It is obvious that those skilled in the art may vary the details of construction and arrangements of parts without departing from the spirit of my invention, and therefore I do not wish to be limited to such features except as may be required by the claims.

I claim:

1. A stock crate comprising sides and ends hingedly connected for folding and adapted to assume a rhombic formation, one of said sides and ends providing an opening therebetween when in such rhombic formation to receive the head of an animal, substantially as described.

2. A stock crate comprising sides and ends hingedly connected for folding and providing an opening in one corner thereof to receive an animal's nose, a bar for holding the animal with its nose through said opening, and sliding clamps on said sides for engagement to maintain said bar in position, substantially as described.

3. A stock crate comprising vertical sides and ends constructed of spaced slats and hinged together for folding, said crate providing an opening in one corner thereof to receive an animal's nose, clamps adjustably mounted on said sides, and a bar for holding the animal with its nose through said opening and adapted to engage said clamps for maintaining the same in position, substantially as described.

4. A stock crate comprising sides and ends hingedly connected for folding and adapted to assume a rhombic formation to constitute a trap, one of said sides and ends providing an opening therebetween when in such rhombic formation to receive the nose of an animal, and means mounted in said crate for holding the animal in position with its nose through said opening, substantially as described.

5. A stock crate comprising sides and ends, means for hingedly connecting said sides and ends, and means associated with the hinged connection between one of said sides and ends for spacing the latter to provide an opening therebetween for receiving an animal's head, substantially as described.

6. A stock crate comprising sides and ends hingedly connected together for folding, and blocks located between the hinges and the side and end at one corner of said crate to provide an opening for an animal's head, substantially as described.

7. A stock crate comprising sides and ends connected together and providing an opening therein to receive an animal's head, means for holding the animal with its head through said opening, clamps slidably mounted in said crate, and lugs on said clamps adapted to be engaged by said means and cant the clamps to bind the same in adjusted position, substantially as described.

8. A stock crate comprising interconnected sides and ends and providing an opening to receive an animal's head, ledges within said crate, a removable partition provided with reduced ends receive on said ledges and with shoulders engaging the adjacent parts of the crate for holding the same rigidly in place, and adjustable means for holding the animal in position with its head through said opening, substantially as described.

9. A stock crate comprising sides and ends, hinges connecting said sides and ends, blocks associated with said hinges at one corner of the crate to provide an opening for receiving an animal's head, means for holding said animal in position with its head through the opening, means for adjustably maintaining said first-named means in engagement with the animal, and a partition removably fitted in said crate and adapted to occupy a series of vertical positions therein, substantially as described.

10. A stock crate comprising vertical sides and ends, hinges for connecting said sides and ends for folding and adapted to permit

the same to be moved and assume a rhombic formation, blocks located between the hinges and the side and end at one corner of said crate to provide an opening for an animal's nose, a detachable latch on one end of said crate for permitting the same to be disconnected from its side and constitute a gate, series of ledges provided on said ends, and a removable partition arranged to rest on said ledges, substantially as described.

In testimony whereof, I affix my signature.

MYRON L. WINANS.

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