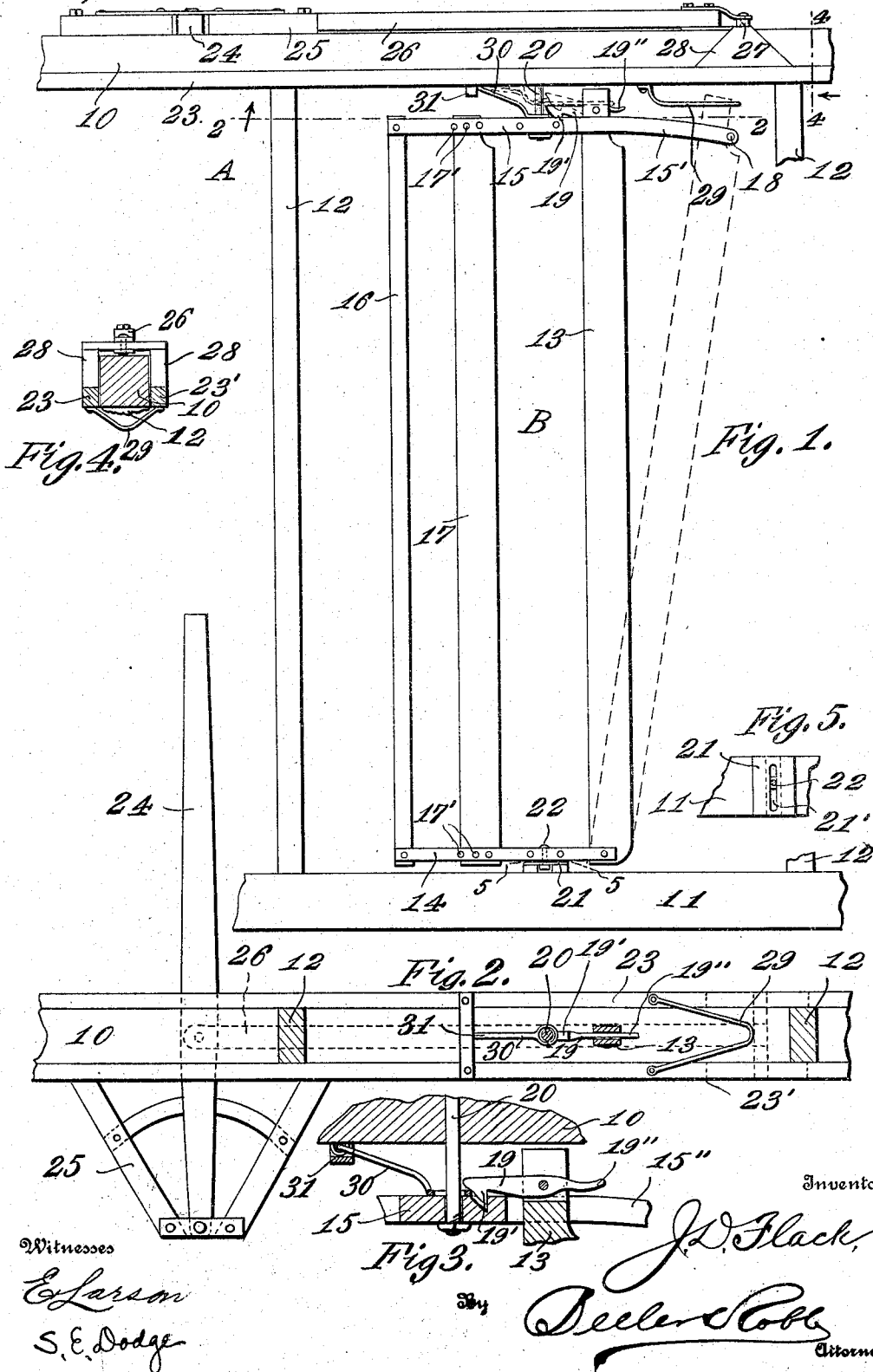


J. D. FLACK.
CATTLE STANCHION.
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Witnesses

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UNITED STATES PATENT OFFICE.

JAMES D. FLACK, OF FLACKVILLE, NEW YORK.

CATTLE-STANCHION.

933,424.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES D. FLACK, a citizen of the United States, residing at Flackville, in the county of St. Lawrence and State of New York, have invented a new and useful Cattle-Stanchion, of which the following is a specification.

This invention relates to that type of devices above indicated and particularly to certain novel features of construction hereinafter fully described and claimed and illustrated in the accompanying drawings, in which—

Figure 1 is a view in elevation; Fig. 2 is a transverse section substantially on the line 2—2 of Fig. 1; Fig. 3 is a detail view of the locking mechanism; Fig. 4 is a sectional detail on the line 4—4 of Fig. 1, and Fig. 5 is a detail substantially on the line 5—5 of Fig. 1.

Throughout the description and on the several figures of the drawings, similar parts are referred to by like reference characters.

As indicated conventionally A represents any suitable rigid frame work in which one or more stanchions may be built or secured. Said frame includes an upper member or stringer 10, a sill 11 and uprights 12.

As indicated herein the stanchion proper comprises a yoke B pivoted to the frame and embodying peculiar operating mechanism. The yoke B includes a bar 13, a foot member 14, a head member 15, and one or more relatively stationary members extending between said head and foot members. Of the latter members the one marked 16 is connected permanently to the head and foot members and the bar 17 may be adjusted therein toward or from the movable member to vary the space for the animal's neck, such adjustment being suggested in the drawings by a series of holes for pin connections and indicated at 17'. The bar 13 is pivoted at its lower end to the foot piece 14 and its upper end is guided between the side bars 15' and 15'' of the head piece 15. Said bars curve downwardly slightly at their outer end where they are connected by a stop pin 18 to limit the outward movement of the movable bar. Any suitable locking means may be provided to hold the bar 13 closed. The means indicated for this purpose comprises a dog 19 pivoted to the upper end of the bar 13 and having a hook 19' to engage the head piece 15 and having also at its other end a finger 19'', whereby the dog

may be released by hand if desired. The yoke B is connected to the frame at its upper end by a pivot pin 20, about which it may rotate freely when closed. At the other end the yoke is secured to the sill 11 by a pin and slot connection to permit lateral movement thereof with respect to the plane of the frame. This connection is shown as being made by the use of a plate 21 supported upon the sill 11 and spaced therefrom. The plate has a slot 21' extending transversely of said sill and a pin or bolt 22 secures the lower end of the yoke to the plate through said slot. This arrangement permits considerable freedom of movement to the animal as when feeding or getting up or down.

As above intimated the movable stanchion bar 13 may be closed or opened by hand independently of any other stanchion or yoke in the usual manner, but in devices of this character it is important that any number of connected stanchions or yokes in a series may be either opened or closed simultaneously by a single operation and from a distant point. To this end I have devised an actuator, whereby the above purpose may be accomplished in a very satisfactory manner. The actuator comprises a pair of bars 23 and 23' slidably associated with the stringer 10 and extending along the lower edge thereof. The actuator may be moved by any suitable means such as a lever 24 supported upon a bracket 25 carried by the frame A. A link 26 of any suitable length extends from the lever to a cross head 27 carried by abutments 28 connected to the bars 23 and 23'. By means of the lever the actuator may be slid positively in either direction along the stringer 10. A loop 29 of any suitable form, shown as substantially V-shaped, is carried by the actuator bars and is adapted to embrace the upper end of the yoke bar 13 for the purpose of preventing rotation of the yoke when open and also for the purpose of closing the yoke when the actuator is moved toward the left as viewed in Fig. 1. When brought to the closing position the dog 19 will engage the head piece 15 to lock the yoke closed. To open the yoke simultaneously devices are provided for operation by the actuator upon movement thereof in the opposite direction from that just above described. The means shown for this purpose includes a hasp 30 connected in any suitable manner to the stringer 10 and cooperating with the dog. The hasp is shown as sur-

rounding the pin 20 and lying beneath the hook 19' when the yoke is locked. A plate 31 is carried by the actuator bars and is adapted to lift the hasp to unlock the dog, as indicated in dotted lines in Fig. 1.

Having thus set forth that form of the invention now best known to me but without desiring to be limited thereto except as required by the state of the art, what I claim as new and desire to protect by Letters Patent of the United States, is:

1. In a cattle stanchion, the combination of a frame having a horizontal stringer, a yoke connected to the frame, said yoke including a pivoted bar, an actuator slidable longitudinally of said stringer, means operative from the actuator to close the pivoted bar, means to lock said bar closed, and means operative from said actuator to release said locking means.

2. In a cattle stanchion, the combination of a frame, a yoke connected to the frame

and having a movable bar, an actuator movably connected to the frame, means to operate the actuator from a distant point, a loop carried by the actuator to engage and close said bar, means to lock the bar closed comprising a dog, a member carried by the frame and associated with the dog when in locking position, and means carried by the actuator to cause said member to release the dog.

3. In a cattle stanchion, the combination of a frame, a movable bar, a dog to hold the bar closed, a hasp, and means operative from a distant point to actuate the hasp to unlock the bar, said means including a pair of longitudinally movable bars and a transverse member connected to the bars and movable thereby to lift the hasp.

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