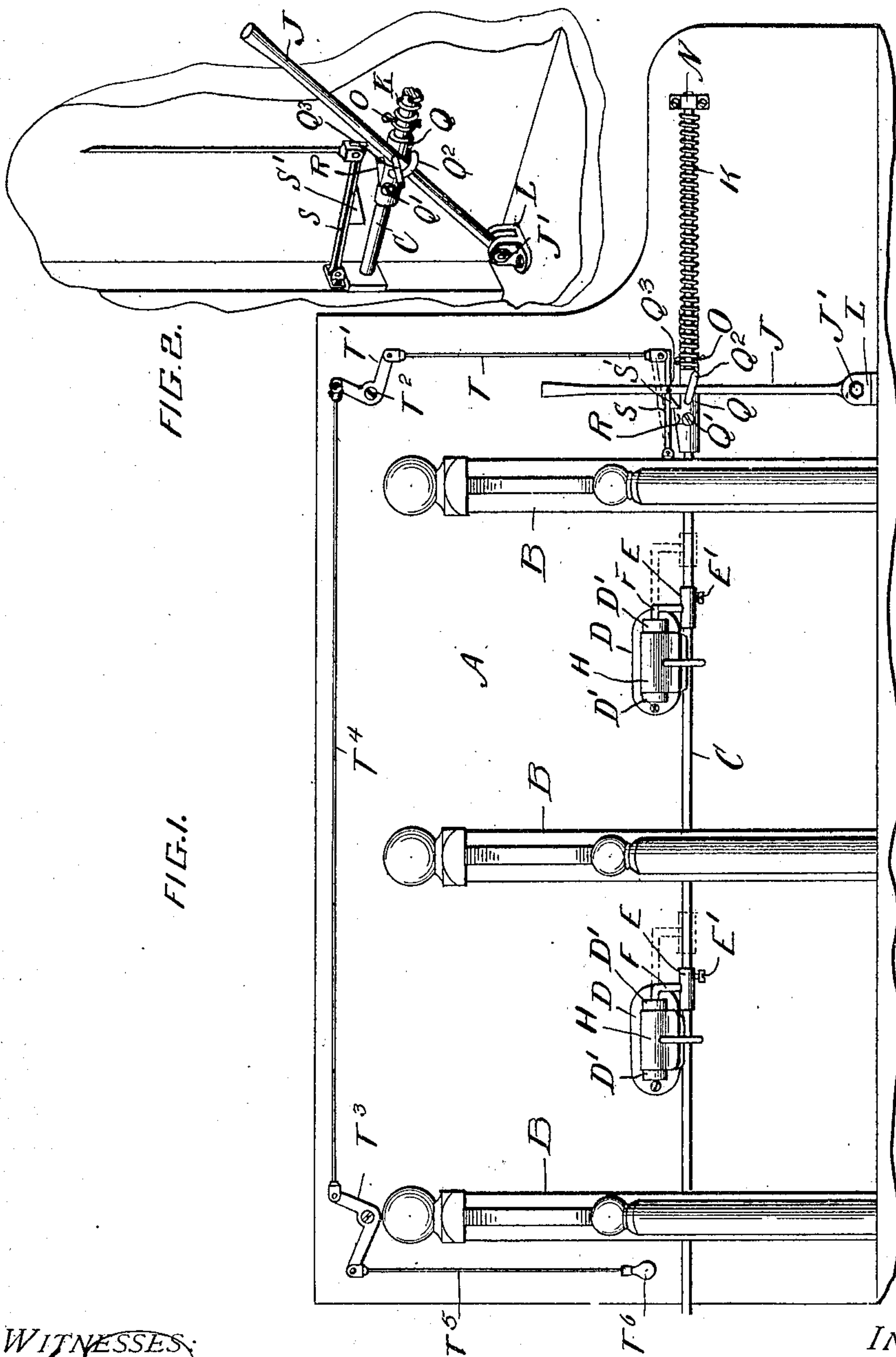


G. W. MAYBERRY.
 DEVICE FOR RELEASING HORSES AND CATTLE IN CASE OF FIRE.
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912,972.

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WITNESSES:
H. F. Hoyle
G. E. Hoyle

INVENTOR
 Geo. W. Mayberry,
 BY *Franklin N. Hoyle*
 Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. MAYBERRY, OF PHILADELPHIA, PENNSYLVANIA.

DEVICE FOR RELEASING HORSES AND CATTLE IN CASE OF FIRE.

No. 912,972.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE W. MAYBERRY, a citizen of the United States, residing at Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Devices for Releasing Horses and Cattle in Case of Fire; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in apparatus for releasing stock from stalls in case of emergency, such as fire, etc., and comprises means whereby one or more animals may be automatically released by suitable lever-actuated mechanism, comprising various details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings in which:—

Figure 1 is a side elevation of my improved apparatus showing the retaining devices in locked positions and in dotted lines in released positions, and Fig. 2 is an enlarged perspective view showing the means for holding the apparatus in a set position.

Reference now being had to the details of the drawings by letter, A designates a wall and B partitions between which are stalls, and C designates a shaft which has a longitudinal movement through apertures in said partitions. Fastened to said wall between each pair of partitions is a plate D having integral lugs D' projecting therefrom which are apertured and mounted upon said shaft are the collars E, each of which is provided with a set screw E' whereby the collar may be held in a fixed position upon the shaft. A right angled rod F is fixed to each of said collars and has a horizontally disposed portion, said horizontally disposed portions of the rods being in alinement with each other and adapted, as the shaft carrying the same moves longitudinally in one direction, to engage the apertures in the lugs D' upon the plates D and form pivotal means upon which the ring carrying members H are mounted and to the rings upon

which members the animal is designed to be fastened in any suitable manner. Mounted upon said shaft C is a coiled spring K, one end of which is fastened to a bracket N upon said wall and the other end secured to a pin O passing through an aperture in the rod. A lever J is pivotally mounted upon a pin J' carried by the plate L, and Q designates a collar which is mounted upon the shaft C and held in an adjusted position thereon by means of the set screw Q'. A lug R projects from said collar Q and has its upper edge tapering.

A spring S is fastened at one end to one of the partitions dividing the apparatus into stalls and has a lug S' upon its under face which is adapted, as the shaft is moved longitudinally in one direction, to contact with the inclined surface of the lug or projection Q' upon the collar Q, causing the spring S to yield until the lug projecting from the latter passes the outer end of the lug Q', after which the spring will return to its normal position with the lug S' in engagement with the outer end of the lug Q', thus holding the shaft at its farthest throw to the left. A wire T is fastened to one end of the spring S and its other end secured to an angled lever T' pivotally mounted upon the pin T² upon said wall, and T³ designates a second angle lever pivotally mounted upon the wall and connected to the angle lever T' by means of a wire T⁴. A rod or wire T⁵ is connected to the angle lever T³ and a handle T⁶ secured to the wire T⁵ affording means whereby, as an operator pulls down upon said rod T⁵, the spring S may be released from the lug R and allow the spring K to return the shaft C to its farthest limit to the right, in which position the angled rods engaging the ring holding members will be withdrawn from the ring holding members and the animals thereby released. Projecting from the collar Q is an eye Q² through which said lever passes and in which the lever works in resetting the shaft or moving the same in its farthest direction to the left. A pin Q³ projects from the lever against which the eye is adapted to contact after the shaft is returned by the coiled spring to the right. Said eye Q² coming in contact with the pin Q³ will limit the movement of the collar Q in one direction.

The operation of my invention will be readily understood and is as follows:—The various ring holding members being inter-

posed between the lugs D' with the apertures in registration, the shaft C is given a longitudinal movement to the left by swinging the lever to an upright position. This movement of the shaft will cause the angle rods to pass through the registering apertures in said lugs and ring holding members and, as the lug R comes in contact with the lug S', the spring S will yield to allow the lug R to pass by the lug S' after which the resiliency of the spring S will cause the lugs S' to serve as a stop to hold the shaft C in a set position or in its farthest position to the left. When the shaft is in a set position, the spring K will be under tension, the same being a coiled spring and, when it is desired to release the ring carrying members to which the animal is adapted to be fastened, the operator by pulling upon the handle T^c may cause the spring S to release the shaft and allow the same to move to the right which movement will allow the angle rods to move from the ring carrying members as will be readily understood.

While I have shown the two angle levers and connections with the releasing spring, it will be understood that the connections with said releasing spring may extend to any suitable location whereby the apparatus may be released near by or a distance from the location where the animals are confined.

What I claim to be new is:—

1. A device for releasing stock from stalls comprising, in combination with a wall, plates secured thereto and provided with apertured projections, a horizontally and longitudinally movable shaft, rods projecting therefrom and having portions which are in alinement with the apertures in said projections of the plates, a spring fastened to said shaft and adapted to normally hold the same so that the rods thereon will be out of engagement with said apertured projec-

tions of the plates, a pivotal lever, an eye projecting from the shaft through which said lever passes, a pin upon said lever, adapted to engage said eye upon the shaft a lug upon said shaft, a resilient catch having a lug adapted to engage the lug upon said shaft, and means for releasing the catch to allow the spring to actuate the shaft and cause the angled rods thereon to withdraw from the apertured projections of said plates, as set forth.

2. A stock releasing apparatus comprising a wall, plates fastened thereto and each having alined apertured projections, a horizontally mounted longitudinally movable shaft, collars upon the latter, set screws carried by said collars and designed to engage said shaft, an angled rod projecting from each collar and each having a portion in alinement with each other and adapted to register with the apertures in said projections, apertured ring carrying members, each adapted to be positioned between said projections with the aperture therein in registration with the apertures in the latter for the reception of one of said angled rods, a coiled spring secured to said shaft which is slidably mounted upon said wall, an eye carrying collar upon the shaft, a pivotal lever passing through said eye, a pin projecting from the lever to engage the eye in one position of the lever, a lug upon said eye carrying collar, and a resilient catch having a lug designed to engage the lug upon said collar, and means for releasing said catch, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

GEORGE W. MAYBERRY.

Witnesses:

H. MAXWELL ROWLAND,
HUGH COLGAN.