

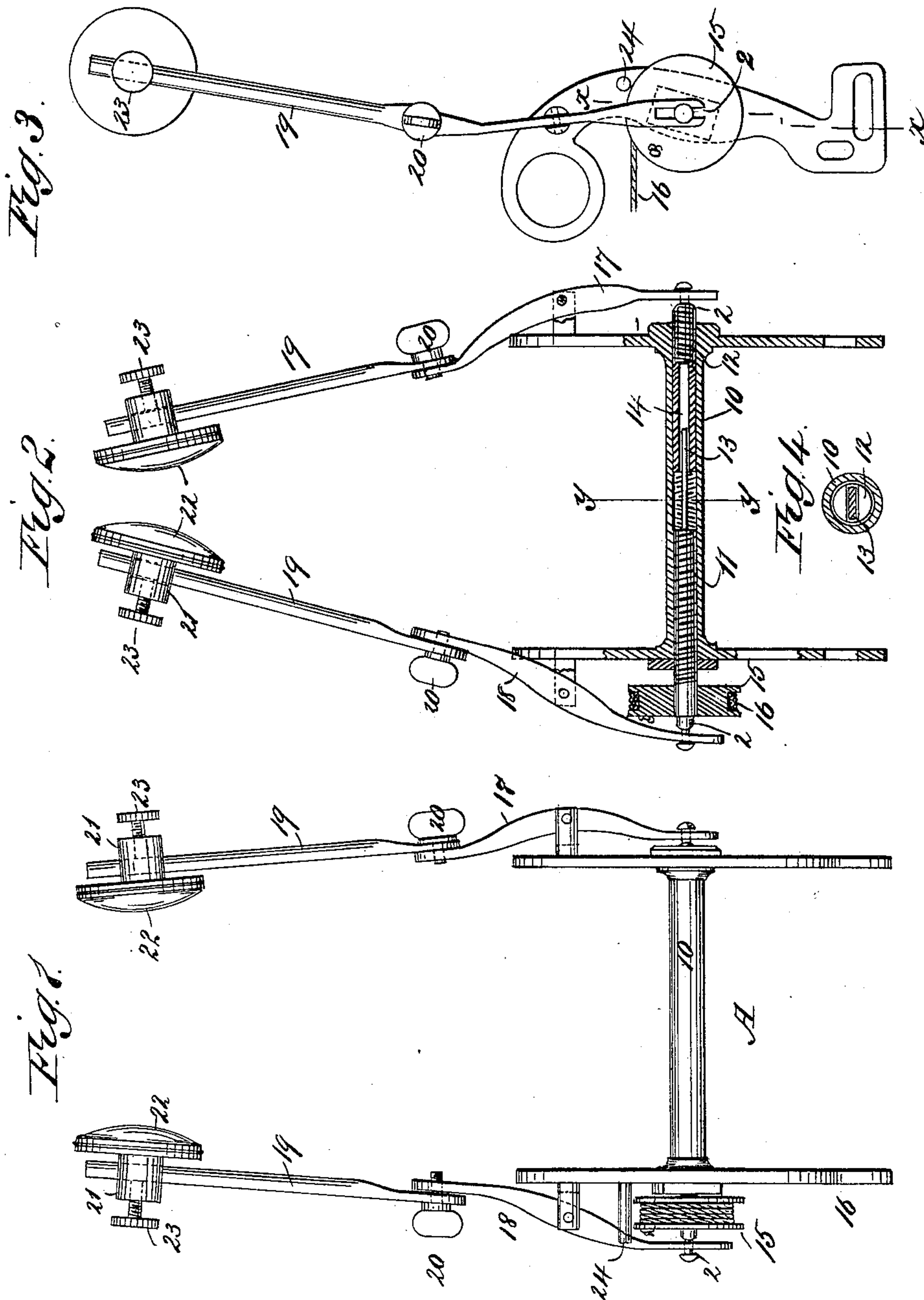
(No Model.)

I. GRUMBACH.

DEVICE FOR CONTROLLING RUNAWAY HORSES.

No. 368,391.

Patented Aug. 16, 1887.



WITNESSES:

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ISAÏE GRUMBACH, OF GALVESTON, TEXAS.

DEVICE FOR CONTROLLING RUNAWAY HORSES.

SPECIFICATION forming part of Letters Patent No. 368,391, dated August 16, 1887.

Application filed January 6, 1887. Serial No. 223,551. (No model.)

To all whom it may concern:

Be it known that I, ISAÏE GRUMBACH, of Galveston, in the county of Galveston and State of Texas, have invented a new and Improved Device for Stopping Runaway Horses, of which the following is a full, clear, and exact description.

It is a well-known fact that fractious animals, and especially horses, may be quickly subdued by bringing continued pressure to bear upon their noses, so as to close their nostrils; and it is the object of the present invention to construct an apparatus whereby such a pressure may be applied by the rider or driver of the animal in connection with which the apparatus is employed, the invention consisting of pads that are supported by lever-arms pivotally connected to a bit, and of a means whereby said pads may be moved toward each other—that is, to a position so that they will bear upon the outer nostril-wall—as will be hereinafter explained and specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters and figures of reference indicate corresponding parts in all the views.

Figure 1 is a front view of the bit. Fig. 2 is a sectional view taken on line $x x$ of Fig. 3. Fig. 3 is a side view of a bit, representing the same as being provided with my safety attachment; and Fig. 4 is a cross-section of the same on the line $y y$ in Fig. 2.

In constructing such a device as the one illustrated in the drawings above referred to I provide a bit, A, the mouth-piece 10 of which is rigid and hollow, internal inversely-formed screw-threads being cut in the mouth-piece. Screws 11 and 12 are brought into engagement with the internal threads of the mouth-piece of the bit, and one of these screws is provided with a projection, 13, which fits within the socket or recess 14, that is formed in the other screw, the projection 13 and the recess being squared or irregularly formed, so that when one screw is turned a similar movement will be imparted to the other. To the projecting end of the screw 11 there is secured a drum, 15, upon which there is wound a cord, 16.

Levers 17 and 18 are pivotally connected to opposite sides of the bit A, and the ends of these levers are slotted to fit over the reduced

portions 2 of the screws 11 and 12. To the ends of the levers 17 and 18 I secure arms 19, said arms being held to their levers by set-screws 20, and upon these arms 19 I mount sockets 21, which carry pads 22, the sockets being provided with set-screws 23, by means of which they are clamped to their arms.

In order that the cord 16 may be prevented from accidentally leaving the drum 15, I provide a pin, 24, which is arranged so as to closely approach the peripheral face of the drum.

In operation the bit is applied in the usual manner, and the pads 22 are adjusted so that they will closely approach the outer face of the outer wall of the animal's nostrils. The cord 16 is carried backward to within reach of the rider or driver, when, should the animal that is so equipped become fractious or attempt to run away, a simple pull upon the cord 16 will cause the screw 11, and with it the screw 12, to revolve, and as the said screws are inversely threaded they will each move outward, carrying the levers 17 and 18, so that the pads 22 will be brought into action to close the nostrils of the animal. It will be found that as the nostrils are so closed the animal will become subject to the control of the rider or driver.

The object of making a pivotal connection between the arms 19 and their supporting-levers and of adjustably connecting the pads to their supporting-arms is to provide for a proper adjustment of the pads.

Having thus fully described invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a bit formed with an inversely-threaded mouth-piece, of screws arranged within said mouth-piece, levers arranged in connection with the screws, pads connected to the levers, and a means, substantially as described, for turning the screws, as and for the purpose stated.

2. The combination, with a bit formed with a hollow inversely-threaded mouth-piece, of screws mounted in said mouth-piece, a connection between the screws, a drum carried by one of the screws, a cord secured to the drum, levers pivotally connected to the bit, arms connected to the levers, and pads carried by the arms, substantially as described.

3. The combination, with a bit formed with

5 a hollow internally-threaded mouth-piece, of right and left hand screws mounted within said mouth-piece, a tongue or projection carried by one of the screws and arranged to enter a correspondingly-formed recess that is formed in the other screw, a drum connected to one of the screws, a cord arranged in connection with the drum, levers pivotally con-

nected to the bit and arranged in connection with the screws, arms adjustably connected to the levers, and pads adjustably connected to the arms, substantially as described.

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Witnesses:

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