

(No Model.)

N. R. SHEETS.
LIVE STOCK RELEASER.

No. 447,979.

Patented Mar. 10, 1891.

Fig. 1.

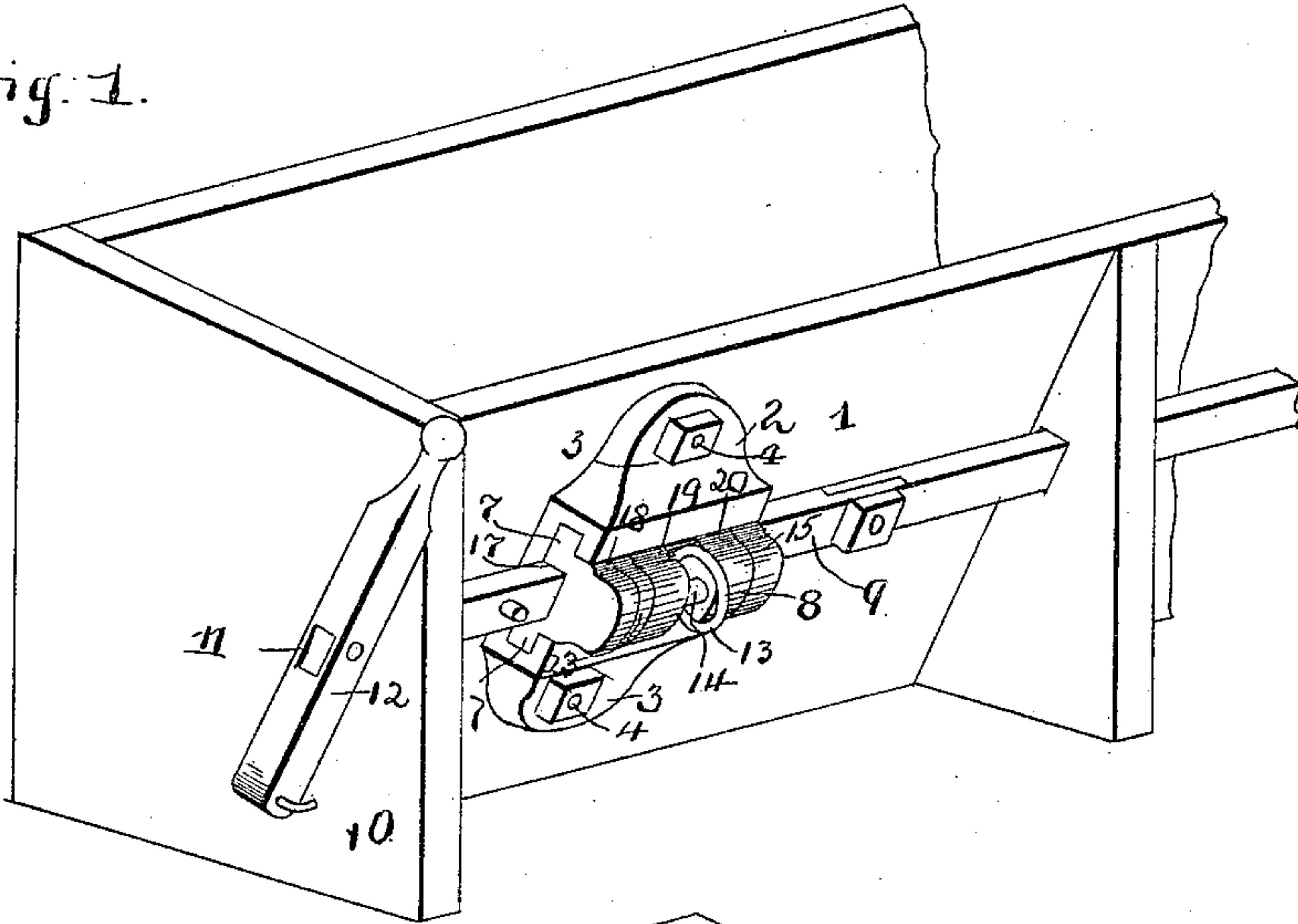


Fig. 4.

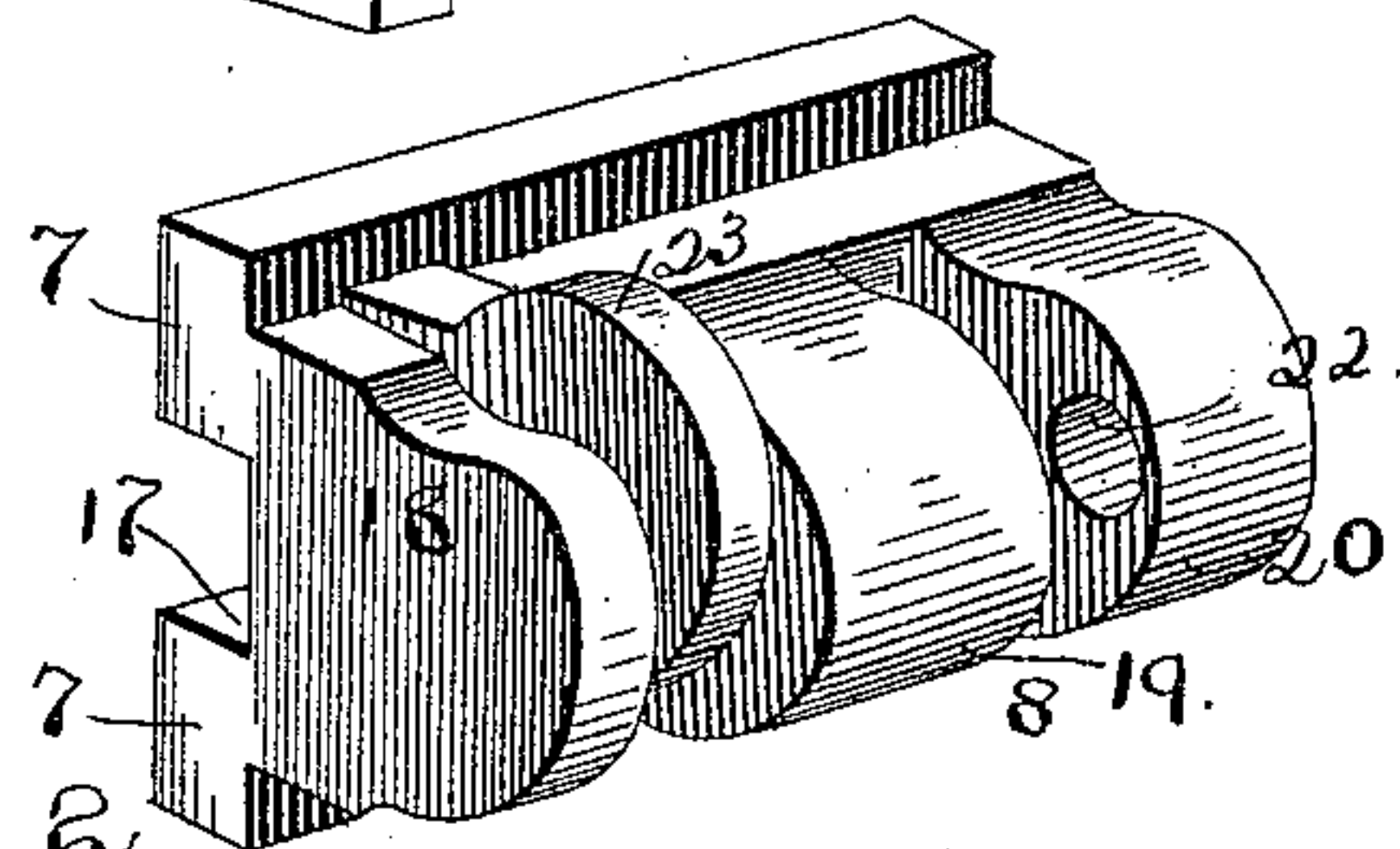


Fig. 2.

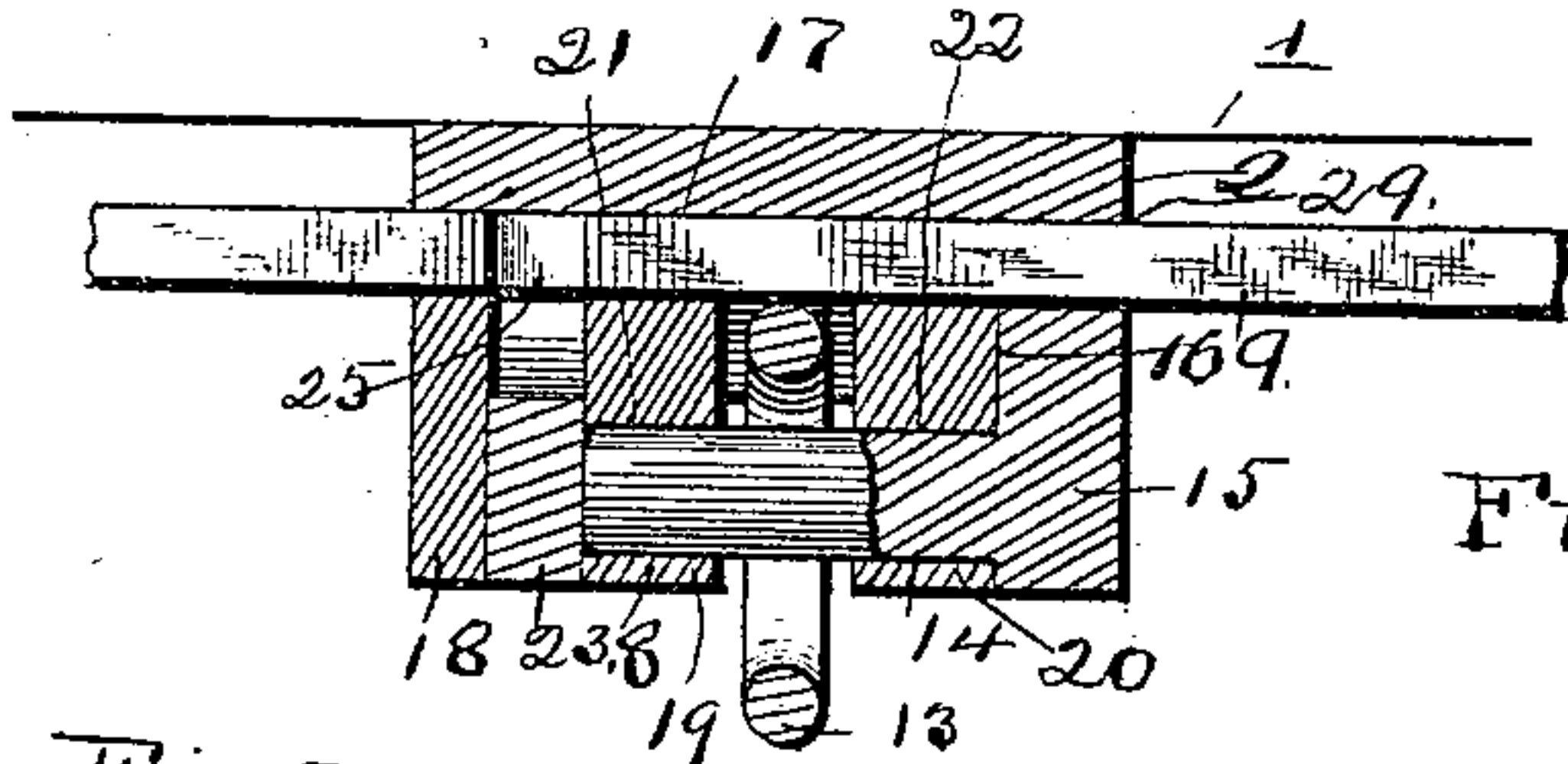


Fig. 3.

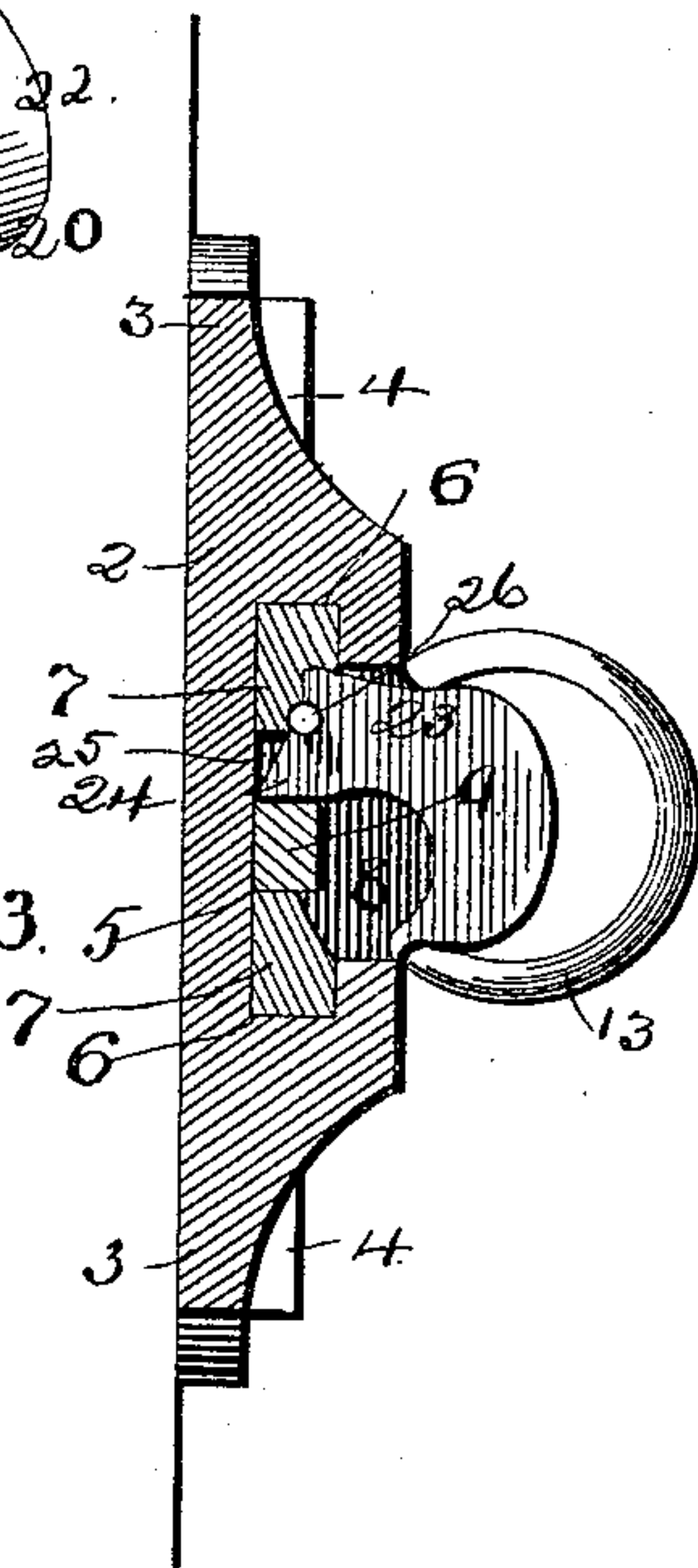
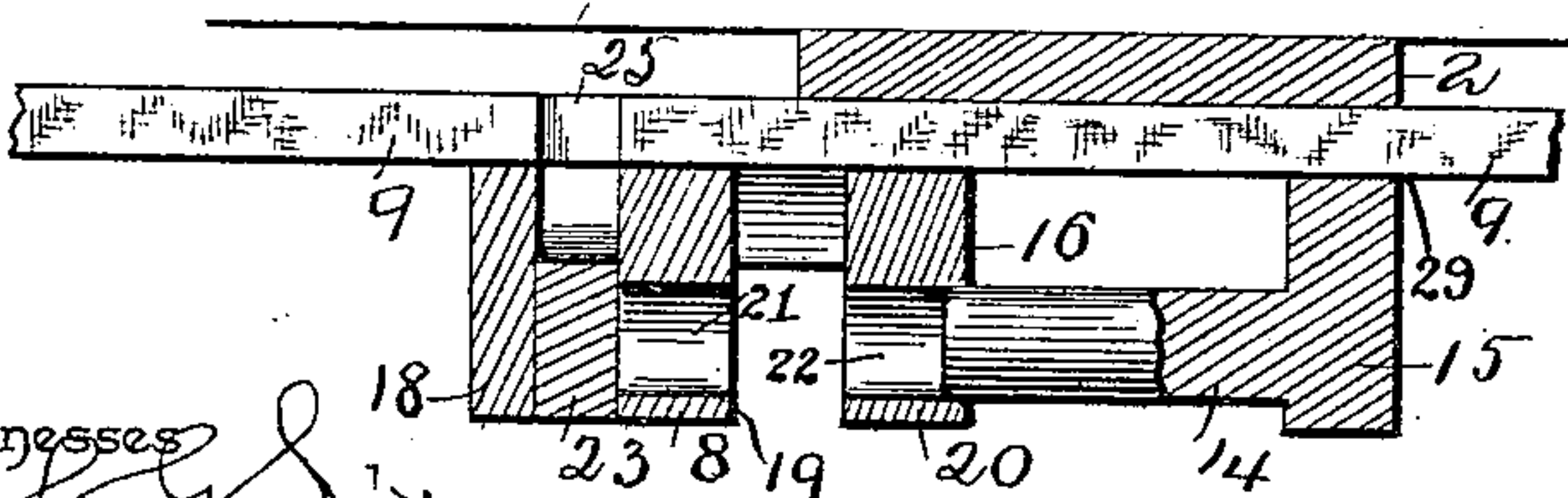


Fig. 5.



Witnesses

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NIAL R. SHEETS, OF DIGHTON, KANSAS.

LIVE-STOCK RELEASER.

SPECIFICATION forming part of Letters Patent No. 447,979, dated March 10, 1891.

Application filed September 29, 1890. Serial No. 366,511. (No model.)

To all whom it may concern:

Be it known that I, NIAL R. SHEETS, a citizen of the United States, residing at Dighton, in the county of Lane and State of Kansas, have invented a new and useful Stock-Releaser, of which the following is a specification.

The invention relates to improvements in devices for releasing animals from stalls.

The object of the present invention is to provide a simple and inexpensive device which will be strong, durable, and easily operated and capable of simultaneously releasing the animals of a barn or stable from their stalls.

The invention consists of the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view showing my improved stock-releasing device applied in operative position to a manger. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view of the slide. Fig. 5 is a view similar to Fig. 2, but showing the slide operated.

Referring to the accompanying drawings, 1 designates the side of a manger arranged at the head of a stall and having secured to it a bracket-casting 2, having its upper and lower ends 3 perforated to receive bolts 4 for securing it to the manger, and provided intermediate of its ends with a recess 5, terminating at the top and bottom in grooves 6, which form ways for flanges 7, arranged at the sides of a slide 8. The slide 8 is arranged in the recess 5 of the bracket 2, and is actuated by a sliding bar 9, having one end extending through the side 10 of a barn and pivoted in a recess 11 of an operating-lever 12, which is adapted to reciprocate the sliding bar 9 to release a ring 13 from a pin 14, extending inward over the recess 5 from a flange 15, formed integral with the bracket 2, and arranged at one end of the recess 5, and being a continuation of the end wall 16 of said recess. In the lower face of the slide is formed a longitudinal recess 17, which receives the sliding bar 9, and the said slide is provided with three similar outwardly-extending flanges 18, 19,

and 20, arranged at intervals and located at the ends of the slide and at a point intermediate of the ends. The flanges 19 and 20 are provided with oppositely-disposed transverse openings 21 and 22, which form sockets for the pin 14, which secures the ring 13 in the space between the flanges 19 and 20, and the latter flange serves to carry the ring clear of the end of the pin when the slide is moved to release an animal, and the flange 19 retains the ring upon the pin when the device is locked, and both of the flanges serve to support the pin and strengthen the device. The slide 8 is secured to the bar 9 by a pivoted key 23, provided with a projection 24 to engage a notch 25 of the sliding bar, and having an integral pintle 26, which is journaled in oppositely-disposed recesses located at one end of the space between the flanges 18 and 19. The key is arranged in the space between the flanges 18 and 19, and is adapted to be swung outward on its pivot 26 to lift the projection 24 out of engagement with the notch 25 of the sliding bar to enable the slide to be moved laterally independent of the sliding bar 9 to be taken out of the recess 5 of the bracket.

A bracket and slide is designed to be provided for each stall of a barn or stable, and to be connected, as above described, with the sliding bar 9, and it will be seen that the releasing device is simple and inexpensive and is strong and durable, and any number of them may be operated to simultaneously release the stock. The sliding bar 9 is arranged in the recess of the bracket and passes across the latter, moving through a rectangular opening 29 in the end wall 16 of the recess, and the said bar fits snugly in the longitudinal recess of the slide, which is rectangular and conforms to the configuration of the bar.

What I claim is—

1. The combination of the bracket having the longitudinal dovetailed recess and provided with a pin 14, arranged opposite the recess, the slide arranged in the recess and provided with parallel flanges having openings to receive the pin 14, and means for locking the slide in the bracket, substantially as described.

2. The combination of the recessed bracket 2, provided with the pin 14, the slide arranged

in the recess and provided with flanges having openings to receive the said pin, the sliding bar provided with a notch 25, and the key pivotally mounted in the slide and arranged
5 to engage the notch of the sliding bar, substantially as described.

3. The combination of the bracket having the recess 5 and provided with the flange 15, arranged at one end of the recess, the pin 14,
10 extending laterally from the flange 15 and arranged opposite the recess, the sliding bar 9, arranged in the recess of the bracket and provided with a notch 25, the slide fitting in
15 the recess of the bracket and provided in its lower face with a longitudinal recess to re-

ceive the sliding bar and provided with the flanges 18, 19, and 20, arranged at intervals and having spaces between them, and the key hinged to the slide and arranged between the flanges 18 and 19 and provided with a pro- 20
jection to engage the notch of the sliding bar, substantially as described.

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

NIAL R. SHEETS.

Witnesses:

P. J. MURPHY,
J. D. JONES.