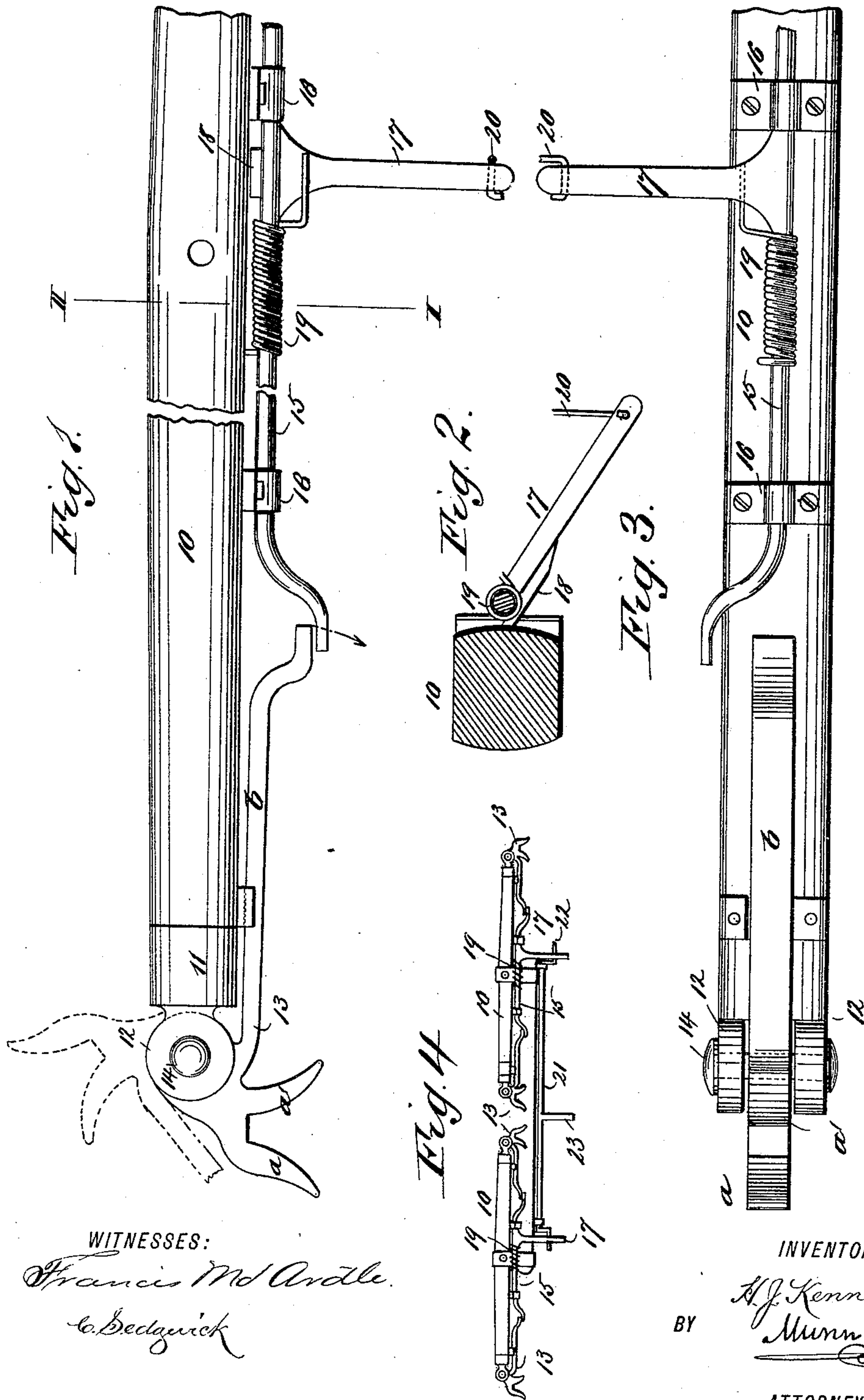


(No Model.)

H. J. KENNEDY.
HORSE DETACHER.

No. 410,797.

Patented Sept. 10, 1889.



WITNESSES:

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HENRY J. KENNEDY, OF BRISTOL, PENNSYLVANIA.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 410,797, dated September 10, 1889.

Application filed April 5, 1889. Serial No. 306,068. (No model.)

To all whom it may concern:

Be it known that I, HENRY JOSEPH KENNEDY, of Bristol, in the county of Bucks and State of Pennsylvania, have invented a new and Improved Horse-Detacher, of which the following is a full, clear, and exact description.

This invention relates to horse-detachers, the object of the invention being to provide an attachment for single and double trees whereby the traces may be disconnected from their supports, and the horses thus freed from engagement with the vehicle.

To the end named the invention consists, essentially, of the novel constructions, arrangements, and combinations of elements to be hereinafter fully described, 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 figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of a portion of a singletree embodying my invention. Fig. 2 is a cross-sectional view on line II II of Fig. 1. Fig. 3 is a rear view of the singletree shown in Fig. 1, the parts being represented as they appear after the retaining-rod has been moved to free the trace-support; and Fig. 4 is a plan view representing the detacher as it appears when arranged in connection with a doubletree.

In the drawings, 10 represents a singletree, to the ends of which there are secured caps 11, having apertured ears or lugs 12. Between the ears or lugs 12, I arrange a trace-receiving device 13, said device being held to place by a bolt or rivet 14, which passes through apertures formed in the lugs or ears 12 and through an aperture formed in the trace-receiving device, as will be readily understood. The trace-receiving device is formed with two horns *a* and *a'*, the horn *a* passing through the eye of the trace, while the horn *a'* serves as a stay acting to hold the trace in the desired position. In addition to the horns *a* and *a'*, the trace-receiving device is provided with a lever-arm *b*, which is normally held in the position in which it is shown in Fig. 1 by a bar 15, which is held to the singletree by clips or bearings 16. This bar or rod 15 is provided

with a rearwardly-extending lever-arm 17, which carries a stop 18, that normally abuts against the rear face of the singletree, the parts being held in this position by a spiral spring 19, coiled about the rod or bar, one end of the spring being connected to the singletree and the other end being connected to the lever-arm 17. The ends of the rod 15 are cranked and overlap the ends of the levers *b* of the trace-receiving device 13. To the lever 17, I connect a cord or rod 20, which extends upward to within reach of the driver, being secured in any proper position, preferably to the dash-board of the vehicle. Such in general being the construction of my improved horse-detacher, it will be seen that if the cord 20 be drawn upon the lever-arm may be turned upward to the position in which it is shown in Fig. 3, and in so turning the ends of the rod 15 will be carried from engagement with the levers *b* and the trace-receiving device will be free to move to the position indicated by dotted lines in Fig. 1, and when the device is in the position just referred to the trace will be free to slip from the horn *a*.

In case the device is to be employed in connection with a doubletree, I provide a supplemental rod or bar 21, that is held to the rear edge of the doubletree and provided with projections 22, which pass beneath the lever-arm 17. This rod or bar 21 is formed with a rearwardly-extending lever 23, to which the cord or rod 20 is secured, so that if the cord or rod be drawn upon the projections 22 will be carried upward, and in so moving upward will carry the levers 17 upward, and thus free the ends of the rods or bars 15 from engagement with the levers *b* of the trace-receiving devices 13.

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

1. In a horse-detaching device, the combination, with a horizontally-turning trace-receiver 13, provided with rearward-projecting horns *a a'*, and a lever-arm *b* to extend along the rear side of the singletree, of the rocking bar 15, having bearings 18 on the rear side of the singletree, and provided with an outward bend at its inner end to engage a similar bend on the lever-arm *b*, a spring 19, holding said ends in engagement, and an op-

erating-arm 17, projecting from the bar 15, substantially as set forth.

2. The combination, with the trace-receivers 13, having lever-arms *b*, projecting toward
5 each other, and vertically-rocking bars or rods 15, having outward bends at their opposite ends engaging similar bends on arms *b*, springs holding said ends in engagement, and the operating-arms 17, projecting from rods or bars
10 15, of a vertically-rocking rod or bar 21, having crank-arms 22 at its ends engaging the arms 17, substantially as set forth.

3. The combination, with a singletree having trace-receivers pivoted at its ends and
15 provided with lever-arms extending toward

each other along the rear side of the singletree and having their inner extremities bent rearwardly and inwardly, of bearings 16 on the rear side of the singletree, a vertically rocking or turning rod 15, mounted in said
20 bearings, provided with rearward and outward bent ends overlapping the inner extremities of the lever-arms *b*, a spring 19, holding said ends in engagement, and an operating-arm 17, substantially as set forth.

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Witnesses:

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