

(No Model.)

W. B. WALKER.
HORSE DETACHER.

No. 414,929.

Patented Nov. 12, 1889.

Fig. 1.

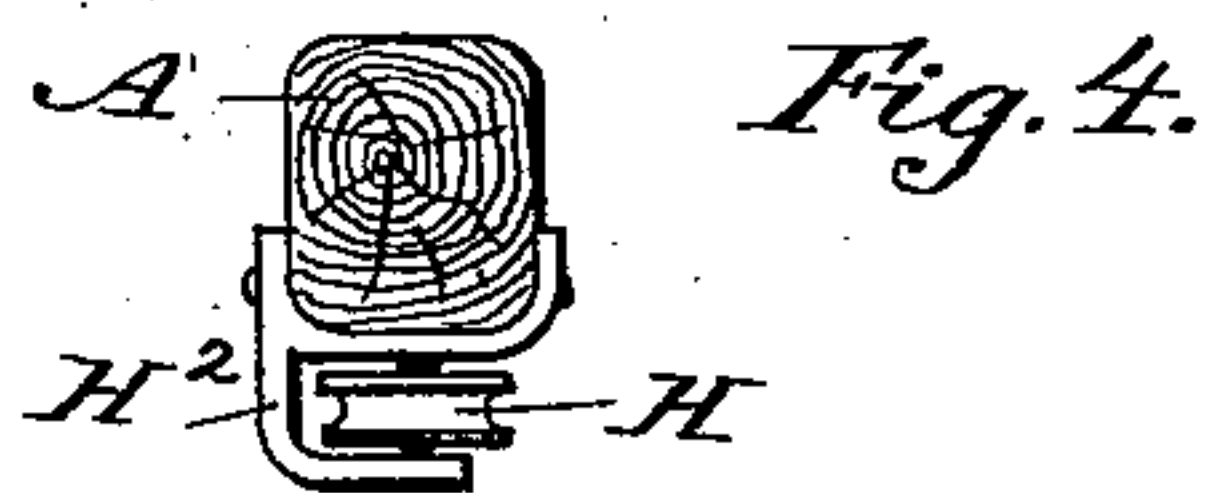
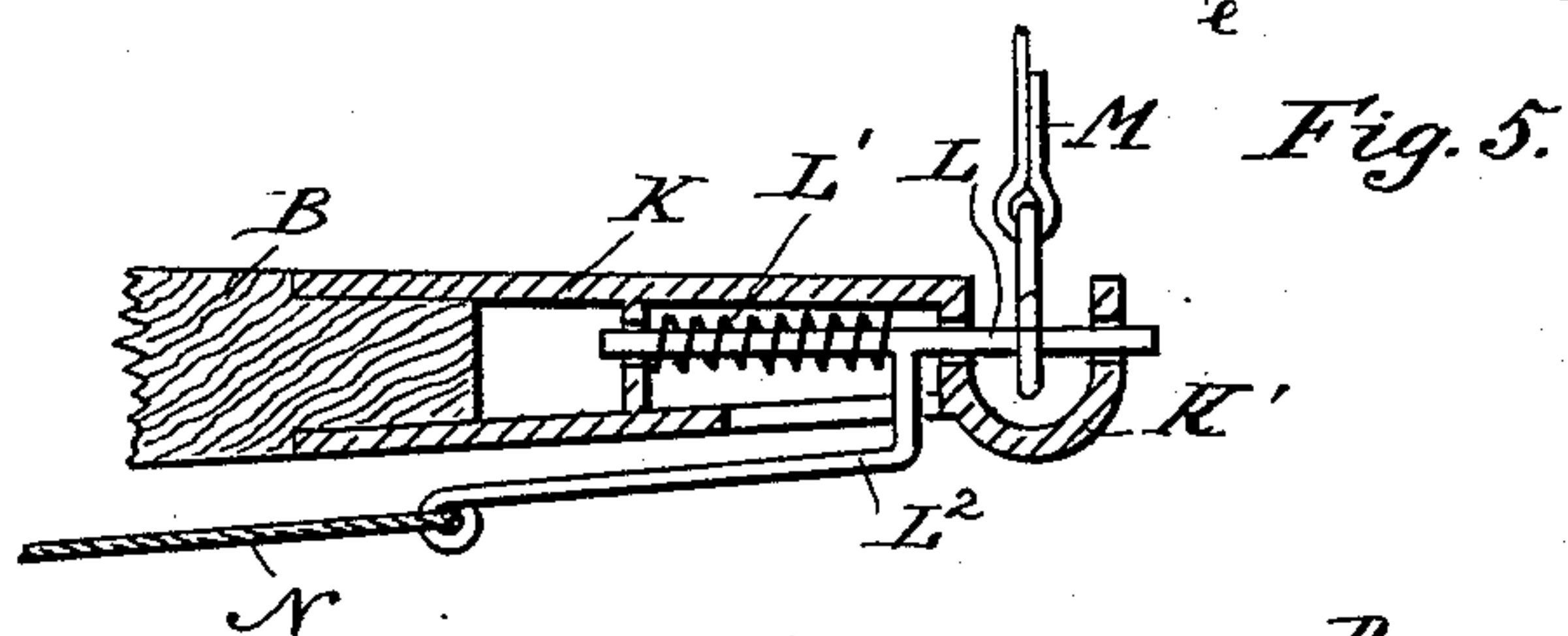
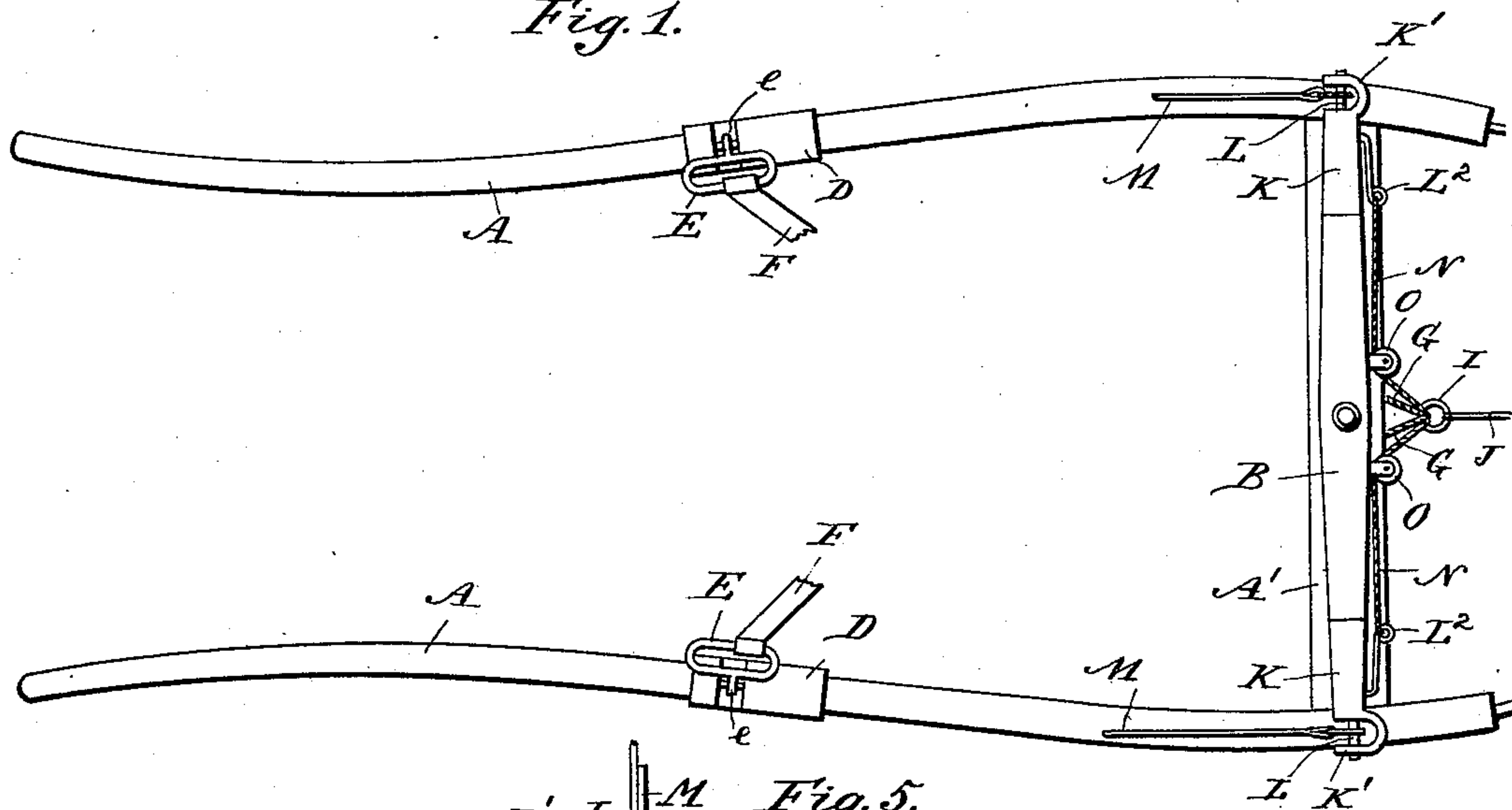


Fig. 2.

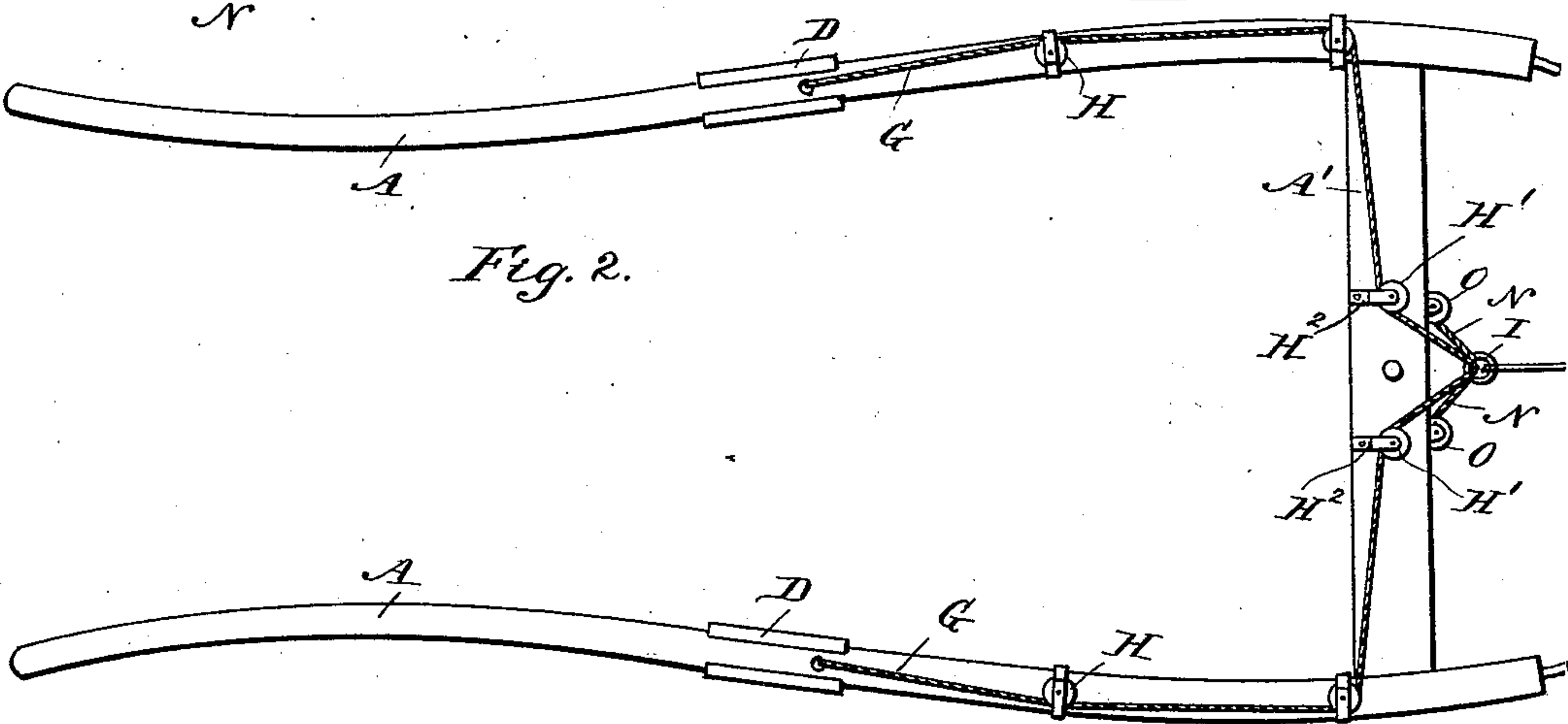
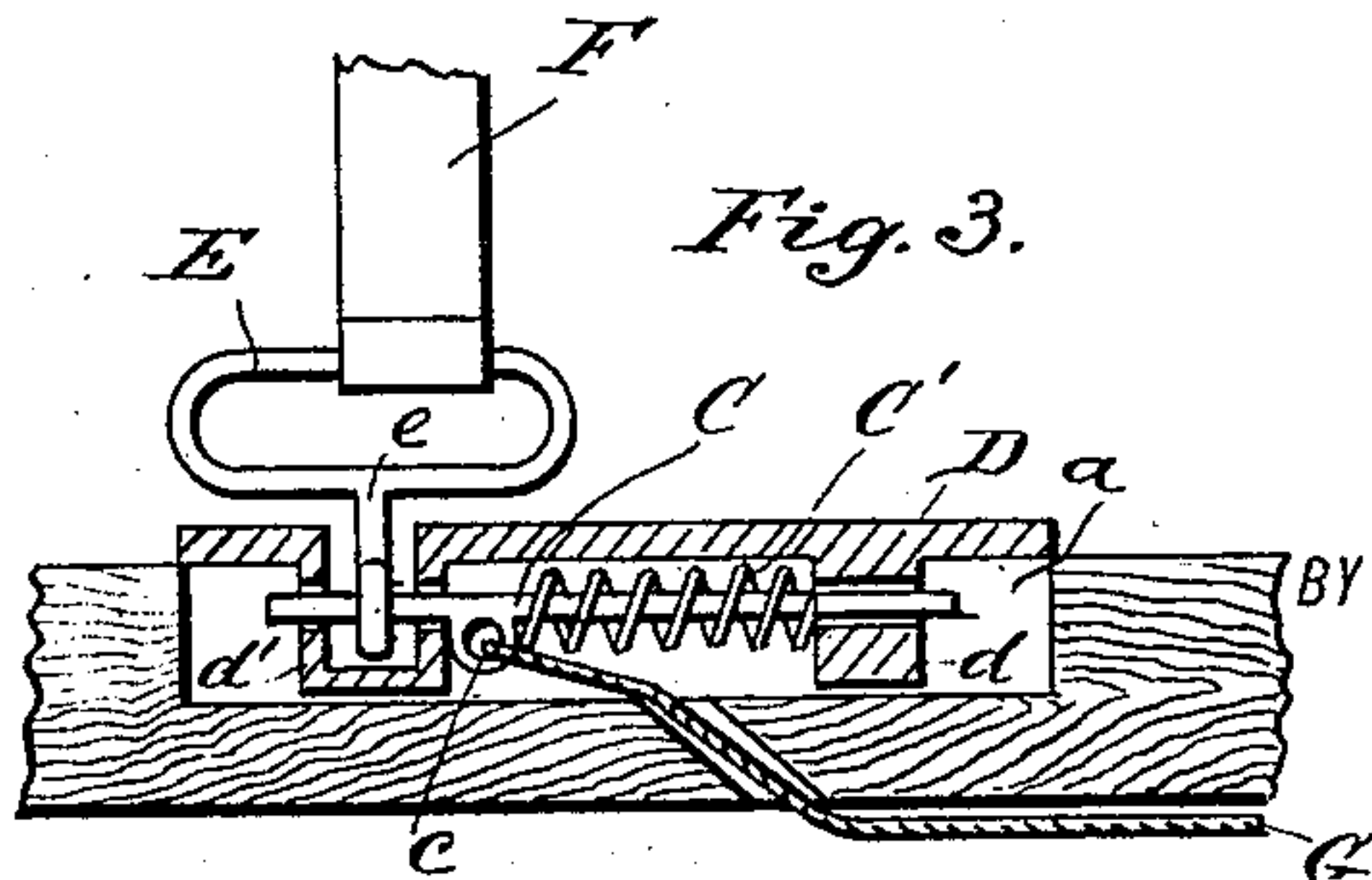


Fig. 3.



WITNESSES:

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WILLIAM B. WALKER, OF NEVADA, MISSOURI, ASSIGNOR OF ONE-HALF TO
WYATT H. MORRIS, OF SAME PLACE.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 414,929, dated November 12, 1889.

Application filed June 14, 1889. Serial No. 314,235. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. WALKER, of Nevada, in the county of Vernon and State of Missouri, have invented a new and Improved Horse-Detacher, of which the following is a full, clear, and exact description.

The object of the invention is to provide means whereby the breeching straps and traces of a harness may be quickly released should the horse become refractory and uncontrollable.

The invention consists in the novel construction and combination of parts hereinafter described and claimed.

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

Figure 1 is a plan view of a pair of vehicle-shafts and whiffletree having my invention applied thereto. Fig. 2 is an inverted plan view thereof. Fig. 3 is a vertical longitudinal section of a portion of one of the shafts. Fig. 4 is a vertical cross-section showing one of the guide-rollers for the operating-cords, and Fig. 5 is a horizontal section through a portion of the whiffletree.

Referring to the parts, A represents the shafts of the vehicle. A' the cross-bar thereof, and B the whiffletree. In a recess *a* in each shaft A is fitted a spring-bolt C, its spring C' abutting a projection *d* on the cap or cover D, that is fitted over the recess *a*, the forward end of said bolt C passing through the apertured loop *d'*, that is formed on the cap D. Each bolt C serves to retain a detachable loop E, the said loop being provided with a shank *e*, which is received in the loop *d'* of the cap D, and through which the spring-bolt passes. The loops E are held by the bolts C in position to receive the breeching-straps F of a harness.

On each spring-bolt C is formed an eye *c*, to which is secured one end of a cord G. The cords G extend from the bolts C rearwardly along the shafts, over guide-rollers H on the latter, and over similar guide-rollers H' on the cross-bar A', and each cord is united to a ring I, to which a cord J is secured, the said

cord J in practice being of a length sufficient to be conveniently reached by the driver of the vehicle when required. The guide-rollers H H' are mounted in suitable brackets H², that are secured to the shafts and cross-bar.

On the ends of the whiffletree B are fitted the tubular caps K, on each of which caps is formed a forwardly-disposed hook K'. In each cap is mounted a spring-bolt L, whose spring L' normally acts to project the bolt across said hook for engaging the end of a trace M. Each bolt L is formed with a rearwardly and laterally projecting arm L², to the end of which is secured a cord N, that extends along the whiffletree B over guide-rollers O on the said whiffletree, the said guide-rollers and their brackets being similar to the brackets and guide-rollers on the shafts A and cross-bar A'. The cords N are also secured to the ring I, whereby when the cord J is pulled by the driver the cords G and N will be acted upon, and will in turn act upon the spring-bolts C L and release the breeching-straps and traces, whereby in case the horse becomes refractory and uncontrollable the harness may be quickly released.

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

1. In a horse-detacher, the combination, with the shafts of a vehicle provided with recesses *a*, of the cap D, provided with the apertured projection *d* and apertured loop *d'*, the bolt C, provided with eyes *c*, and springs C', surrounding the bolts, substantially as described.

2. In a horse-detacher, the combination, with the shafts provided with the recesses *a* and with an aperture leading therefrom, of spring-bolts fitted in recesses of the shafts, guide-pulleys arranged on the shafts and cross-bar thereof, and a cord connected to each bolt, said cords passing through the aperture of the shafts, around the said guide-pulleys, and united to an operating-cord, substantially as herein shown and described.

3. In a horse-detacher, the combination, with the shafts provided with recesses and

apertures leading therefrom, of spring-bolts
in the shafts, guide-pulleys on the shafts and
cross-bar of the thills, tubular caps on the
ends of the whiffletree and having hooks at
5 their ends, spring-bolts in said caps, an op-
erating-cord, and cords attached to the bolts
of the shafts and whiffletree and to the oper-

ating-cord, substantially as herein shown and
described.

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Witnesses:

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