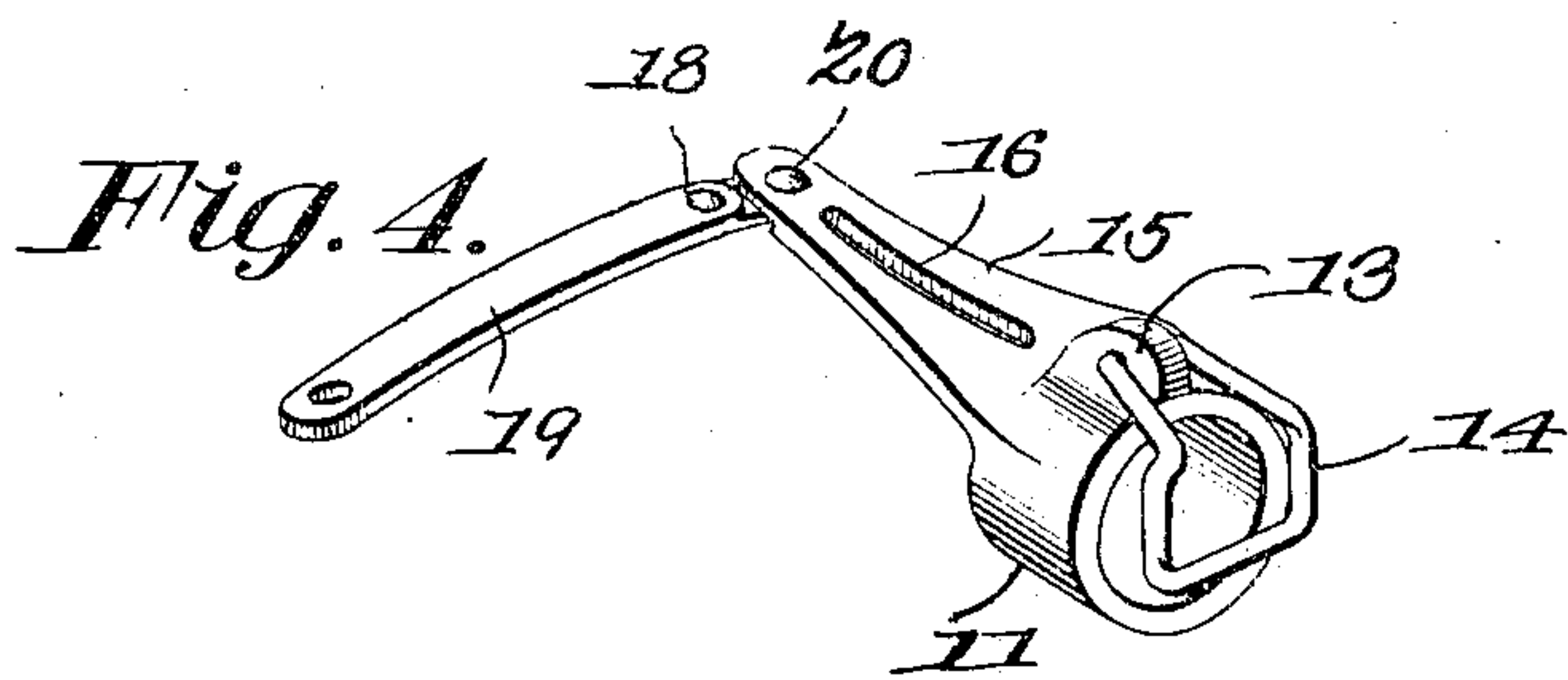
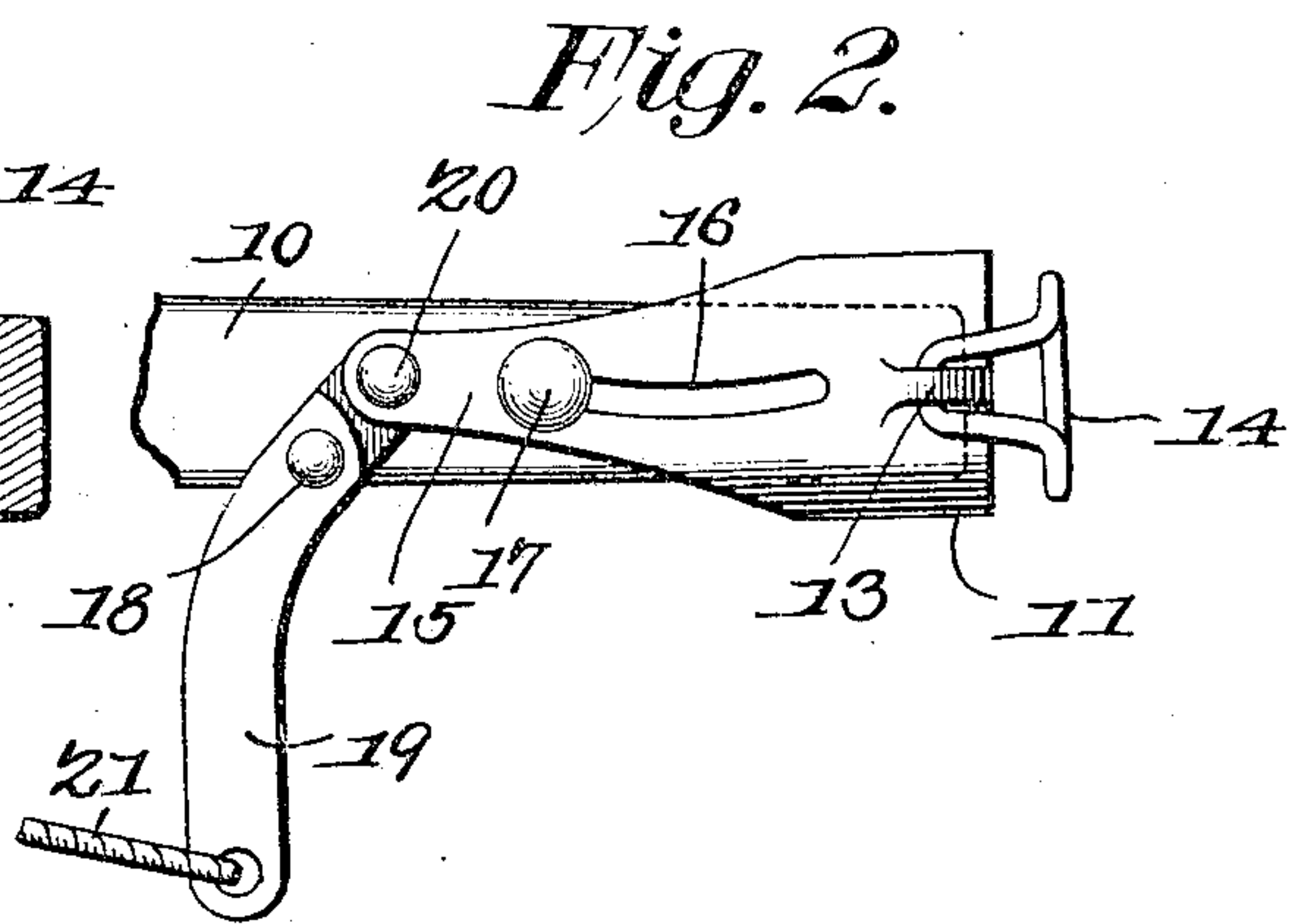
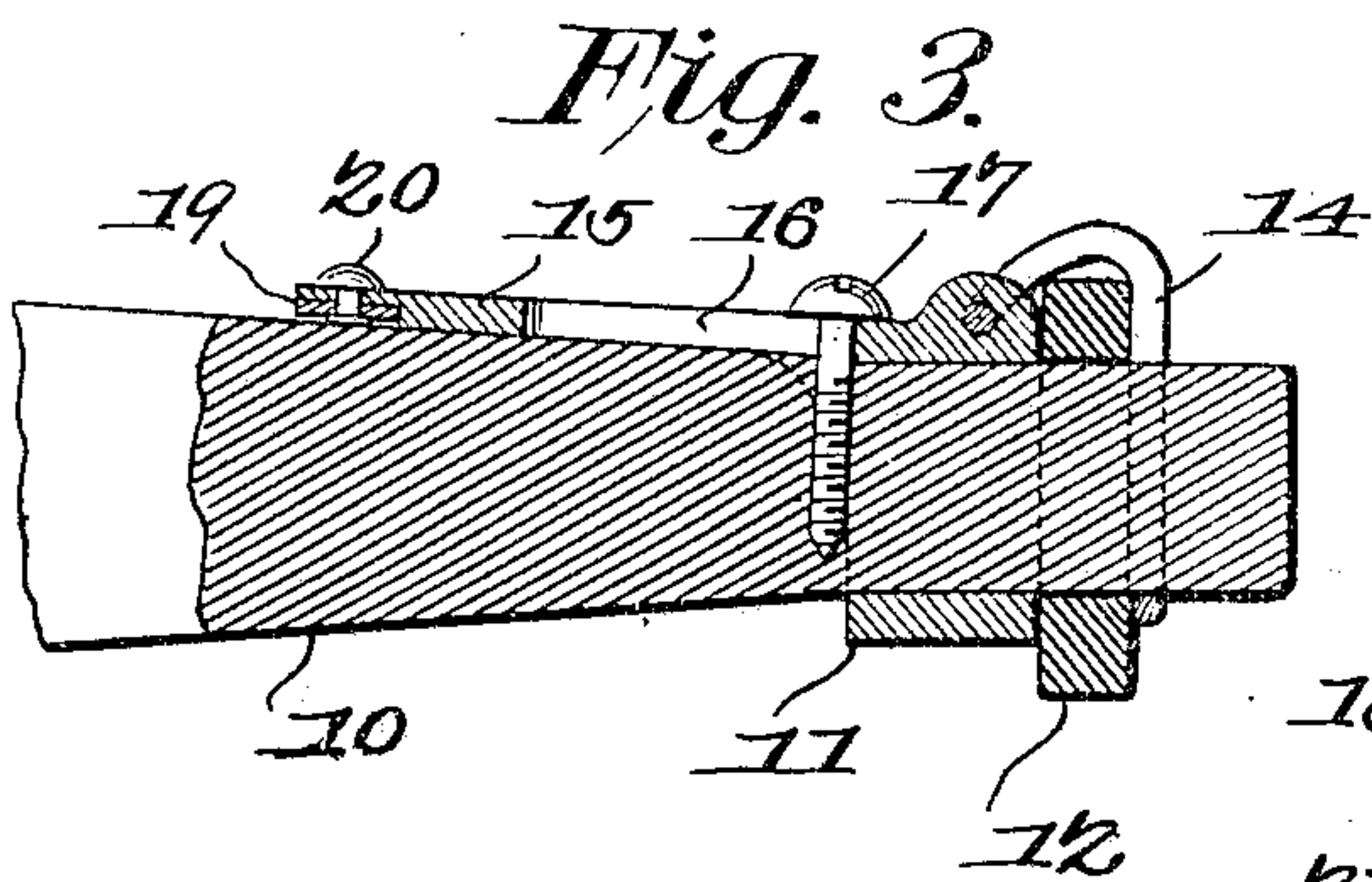
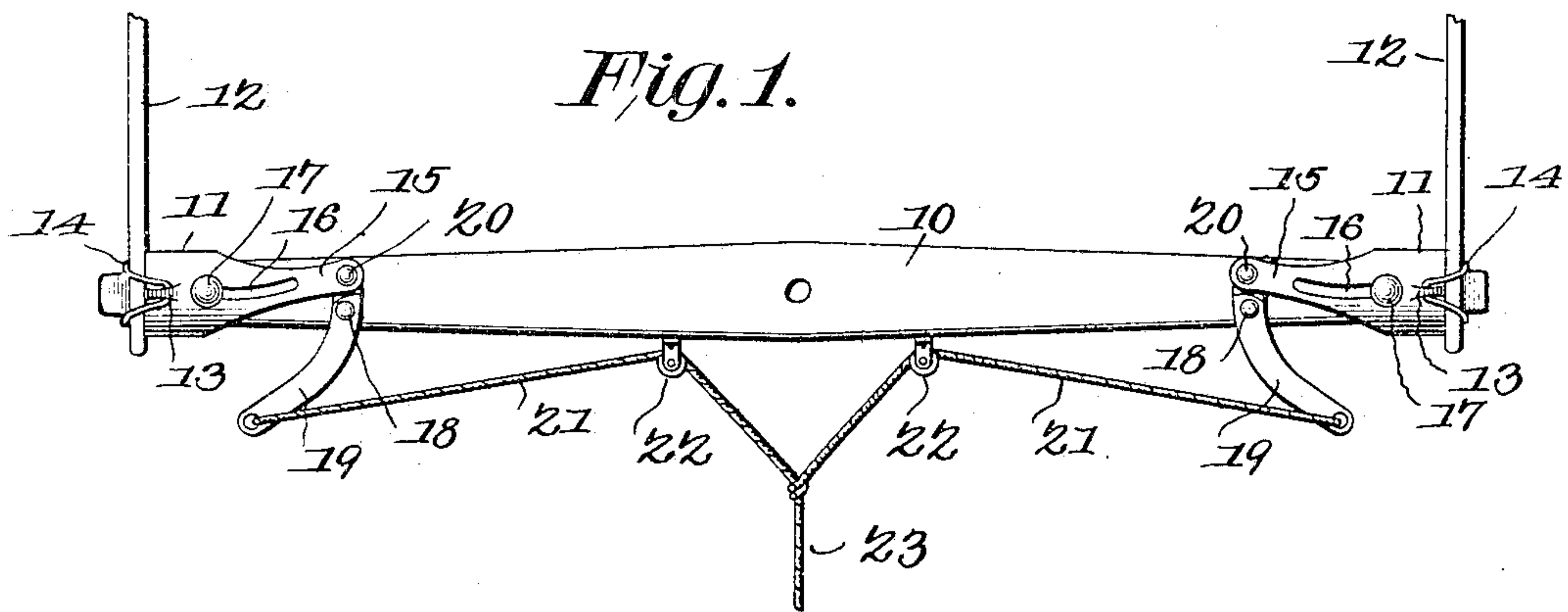


No. 787,270.

PATENTED APR. 11, 1905.

D. C. BRUNER.
HORSE DETACHER.
APPLICATION FILED JAN. 12, 1905.



David C. Bruner,
Inventor

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UNITED STATES PATENT OFFICE.

DAVID C. BRUNER, OF CANEYVILLE, KENTUCKY.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 787,270, dated April 11, 1905.

Application filed January 12, 1905. Serial No. 240,788.

To all whom it may concern:

Be it known that I, DAVID C. BRUNER, a citizen of the United States, residing at Caneyville, in the county of Grayson and State of Kentucky, have invented a new and useful Horse-Detacher, of which the following is a specification.

This invention relates to attachments to vehicles for enabling the driver to instantly release the horse or horses in the event of their running away or becoming otherwise fractious, and has for its object to simplify and improve the construction and increase the efficiency of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings thus employed, Figure 1 is a plan view of a swingletree with the improvement applied. Fig. 2 is a plan view, enlarged, of one end of a swingletree with the improved attachment in projected position. Fig. 3 is a sectional detail, enlarged. Fig. 4 is an enlarged perspective view of the improved attachment.

The improved devices are employed in pairs, one at each end of the whiffletree represented at 10; but as the parts are alike at each end like designating characters are employed to denote like parts in each.

The improved attachment comprises a ferrule 11, slidable one upon each end of the swingletree or whiffletree 10 and when in withdrawn position leaves space for the traces (indicated at 12) to engage the swingletree outside the ferrule, as in Figs. 1 and 3, and when

in projected position coming flush with the ends of the swingletree, as in Fig. 2, and forcing the traces free therefrom.

Mounted to swing from each of the ferrules, as by an ear 13, is a link 14, having a terminal loop for encircling the projecting end of the swingletree outside the trace, and thus supporting the latter in position. By this means a simply-constructed and easily-operated whiffletree or swingletree hook device is provided which will effectually support the traces while the horse is traveling under normal conditions; but if the horse becomes fractious he can be instantly released by simply moving the ferrules outwardly, which will push the traces off from the ends of the swingletree. The means whereby the ferrules are thus actuated consists of an arm 15 extending rearwardly therefrom and longitudinally slotted, as at 16, to receive a pin 17, extending into the body of the swingletree. Pivoted at 18 to the swingletree is a lever 19, pivoted by one end at 20 to the arm 15 and having a draw-cable 21 connected to the other end. The draw-cables of the two ferrules extend inwardly through guide-pulleys 22 on the swingletree and are united into a single draw-cable 23, which will be conducted to a point on the vehicle convenient to the hand of the driver. By this simple means it will be obvious that when required the horse may be instantly released from the swingletree and without injury to the vehicle or other parts.

The device may be attached to any of the various forms of swingletrees or whiffletrees manufactured without material modifications and may likewise be adapted to any of the various forms of traces in ordinary use.

Having thus described the invention, what is claimed is—

1. The combination with a swingletree of ferrules slidably disposed thereon, links movably connected to said ferrules and encircling the extremities of the whiffletree and supporting the traces thereon, when the ferrules are in withdrawn position, and means operative from the rear of the swingletree for moving said ferrules in opposite directions longitudinally of the same to displace said links and the traces supported thereby.

2. The combination with a swingletree, of
ferrules slidably disposed thereon, links
mounted to swing from said ferrules and ter-
minating in loops for enclasp-
5 ities of the swingletree and supporting the
traces thereon when the ferrules are in with-
drawn position, and means operative from
the rear of the swingletree for moving said
ferrules in opposite directions longitudinally
10 of the same to displace said link-loops and
the traces held thereby.

3. The combination with a swingletree, of
ferrules slidably disposed thereon and pro-
vided with rearwardly-extended arms longi-
15 tudinally slotted to receive holding-pins for
movably coupling to the swingletree, links

connected to swing by one end to said fer-
rules and terminating in loops for enclasp-
ing the ends of the swingletree and supporting
the traces thereon when the ferrules are in 2
withdrawn position, levers intermediately
pivoted to said swingletree and pivoted by
one end to said rearwardly-extending arms,
and draw-cables leading from the other ends
of said levers. 2

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

DAVID C. BRUNER.

Witnesses:

W. D. LITSEY,
J. W. BUTLER.