

A. J. DAINS.
HORSE COLLAR FASTENER.
APPLICATION FILED MAY 6, 1909.

953,597.

Patented Mar. 29, 1910.

Fig. 1

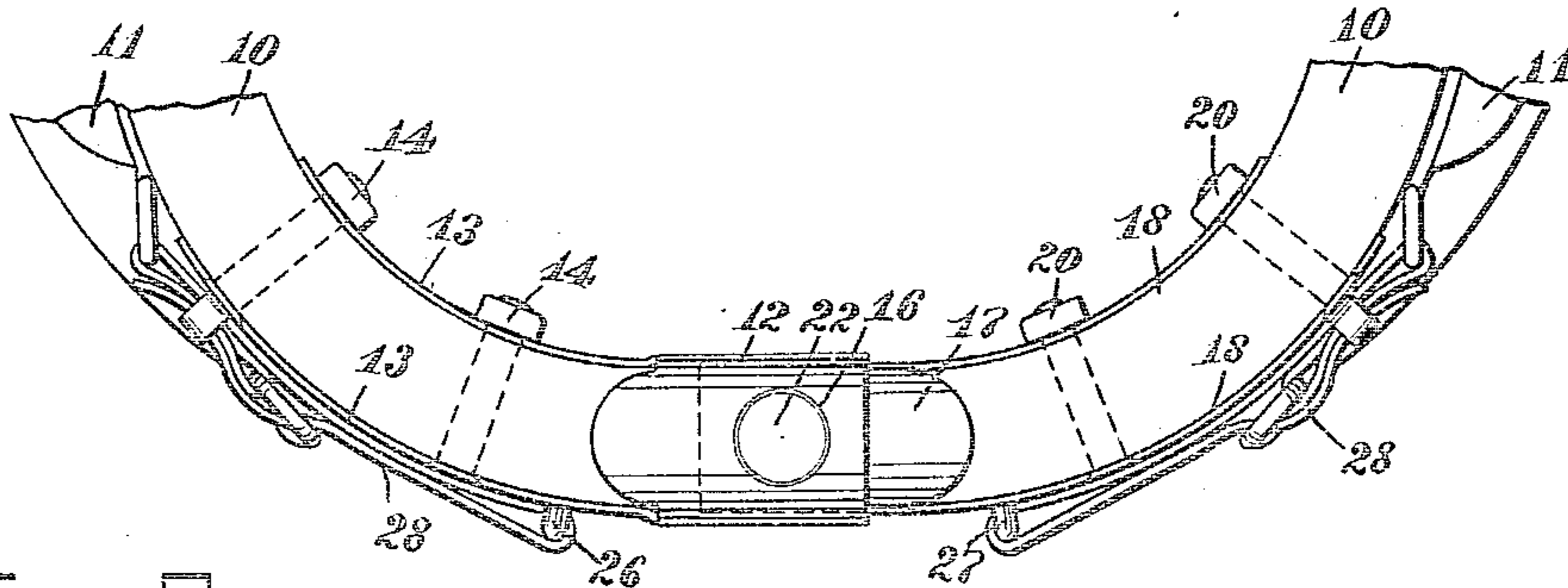


Fig. 2

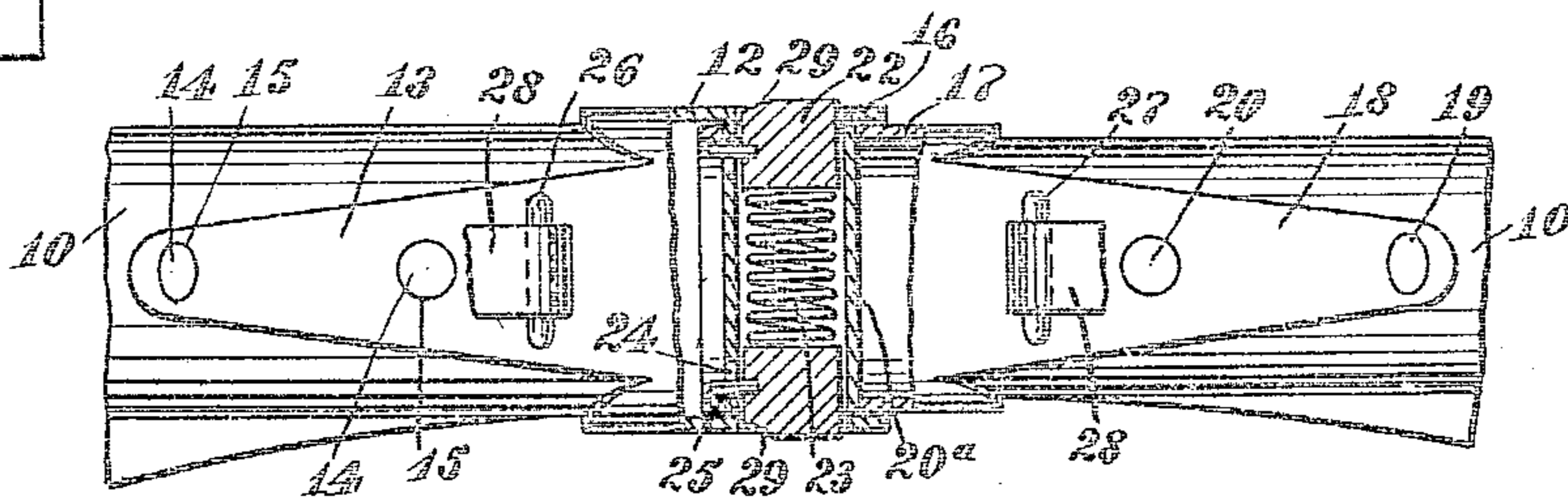
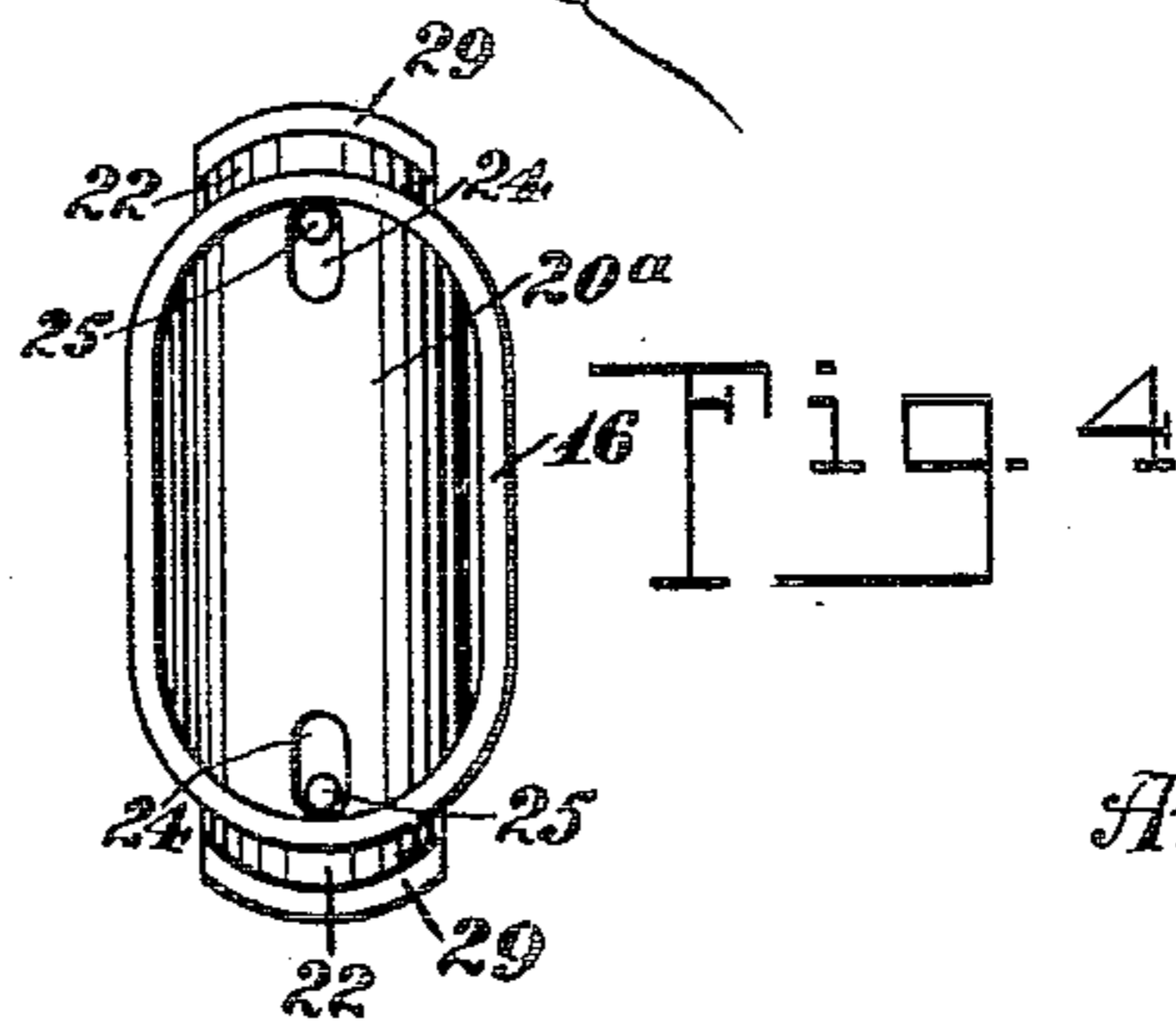
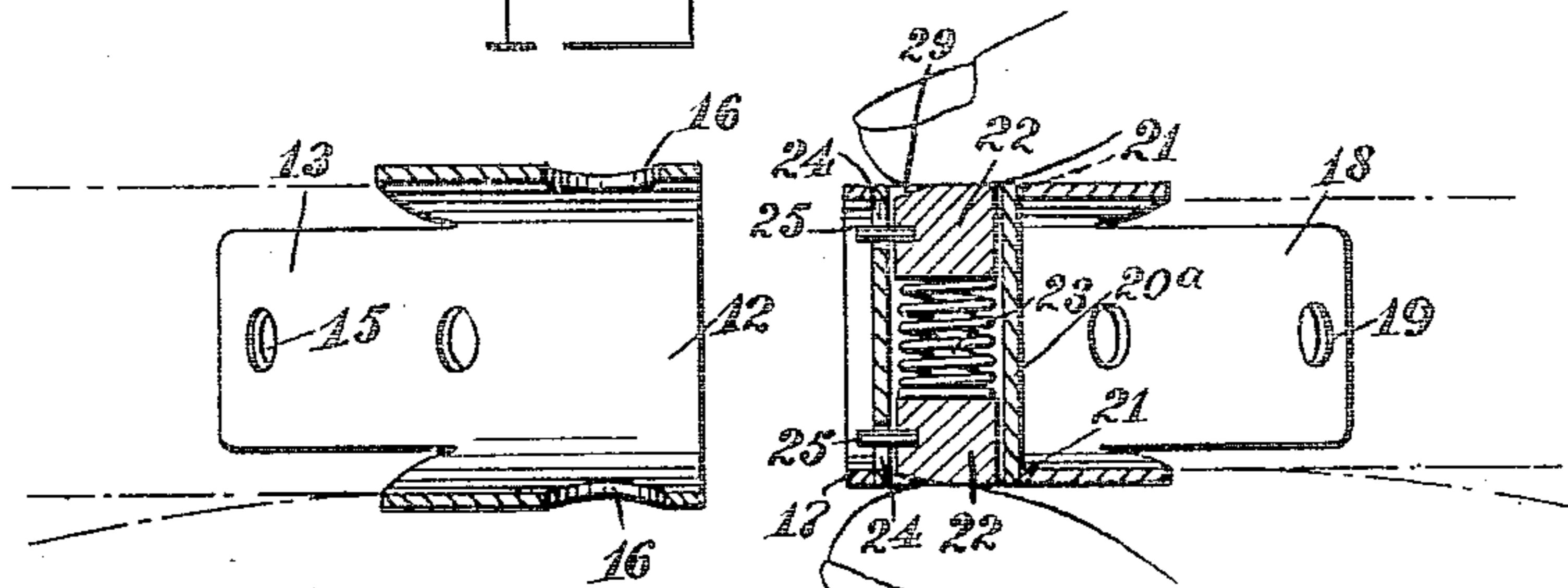


Fig. 3



WITNESSES
J. A. Brophy
John K. Brachvogel

INVENTOR
Andrew J. Dains
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

ANDREW JACKSON DAINS, OF PRATTS FORK, OHIO.

HORSE-COLLAR FASTENER.

953,597.

Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed May 6, 1909. Serial No. 494,209.

To all whom it may concern:

Be it known that I, ANDREW J. DAINS, a citizen of the United States, and a resident of Pratts Fork, in the county of Athens and State of Ohio, have invented a new and Improved Horse-Collar Fastener, of which the following is a full, clear, and exact description.

This invention relates to horse collar fasteners, and more particularly to a device of this class comprising members which are permanently associated with the collar sections and which have means for removably locking to secure the sections together, means being provided for suitably holding in position the hames.

The object of the invention is to provide a simple, inexpensive and durable horse collar fastener, by means of which the collar can be expeditiously secured in position upon the animal, and can be easily released to permit the removal of the collar, without a loss of time, and labor, and in which the parts are securely held together when joined, against accidental release.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

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

Figure 1 is a front elevation of the lower part of a collar comprising an embodiment of my invention; Fig. 2 is an enlarged inverted plan view of the lower part of a collar, having parts broken away; Fig. 3 is a longitudinal section showing the means for securing the collar sections together; and Fig. 4 is an enlarged end elevation of one of the parts of the securing means.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while the device is particularly useful in connection with harness for fire apparatus and the like, wherein it is desirable to have a collar which can be expeditiously secured in place and as easily released, it can also be advantageously employed for other purposes. The collar sections or sides are permanently associated at their upper ends, and have their lower ends provided with respective parts of a suitable clasp or catch for removably hold-

ing them together. These clasp parts also provide means for attaching the lower ends of the hames to the collar.

Referring more particularly to the drawings, I provide collar sections or parts 10 which are substantially semicircular and similar, and which have mounted thereon hames 11 of common or preferred form. One of the sections 10 has a tubular socket member 12 mounted on the end thereof. The socket member has extensions or tongues 13 which extend longitudinally of the collar section, and are suitably curved for this purpose. Bolts 14 or the like passing through openings 15 of the tongues 13 and through the collar section, serve to secure the socket member permanently in place. The latter projects beyond the end of the collar section and has opposite, preferably registering openings 16 for a purpose to appear more clearly hereinafter. The other collar section 10 has a tubular member 17 mounted thereon, and like the member 12, is provided with tongues or extensions 18 having openings 19 therethrough which receive retaining bolts 20 or the like, the latter passing through the collar section. The member 17 projects beyond the end of the collar section and is so proportioned that it fits within the tubular socket 12. Within the member 17 is arranged a transverse hollow guide 20^a preferably cylindrical in form and having the ends located in registering openings 21 of the member 17 so that keepers 22 movable within the guide 20 can project laterally beyond the member 17, and through the openings 16 to lock the tubular members together. The keepers 22 have positioned therebetween a preferably helical spring 23 which tends normally to project them. The guide has near the ends, slots 24 through which project studs 25 which serve to limit the movements of the keepers.

The socket member 12 and the member 17 have staples 26 and 27 respectively, each rigidly mounted upon one of the tongues. These staples serve for the attachment by means of straps 28, of the hames 11, as is shown most clearly in Fig. 1. Consequently, the collar sections can separate freely when the keepers are retracted, without displacing the hames.

The keepers 22 have beveled edges 29 which permit them to move freely into the socket member 12 when the member 17 is forced into engagement with the same. To

release the collar sections it is merely necessary to press the keepers inward and then to draw the member 17 out of the socket 12, as is shown clearly in Fig. 3.

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

1. A collar fastener, comprising a socket having opposite, lateral openings, a member
10 adapted to be inserted in said socket and having opposite, lateral openings, a tubular guide having open ends mounted in said openings of said member, whereby said ends register with said openings of said socket
15 when said member is positioned therein, keepers movably located in said guide, and a spring in said guide engaging said keepers to project the same from said ends of said guide to engage said openings of said socket,
20 said guide holding said spring against displacement.

2. A collar fastener, comprising a socket having opposite, lateral openings, a member

adapted to be inserted in said socket and having opposite, lateral openings, a tubular
25 guide having open ends mounted in said openings of said member, whereby said ends register with said openings of said socket when said member is positioned therein, keepers movably located in said guide, and a
30 spring in said guide engaging said keepers to project the same from said ends of said guide to engage said openings of said socket, said guide holding said spring against displacement, said guide having spaced slots,
35 each of said keepers having a projection movably engaging one of said slots, whereby said keepers have limited movements.

In testimony whereof I have signed my name to this specification in the presence of
40 two subscribing witnesses.

ANDREW JACKSON DAINS.

Witnesses:

JNO. FAIR,

GRACE CHISHOLM.