

No. 635,408.

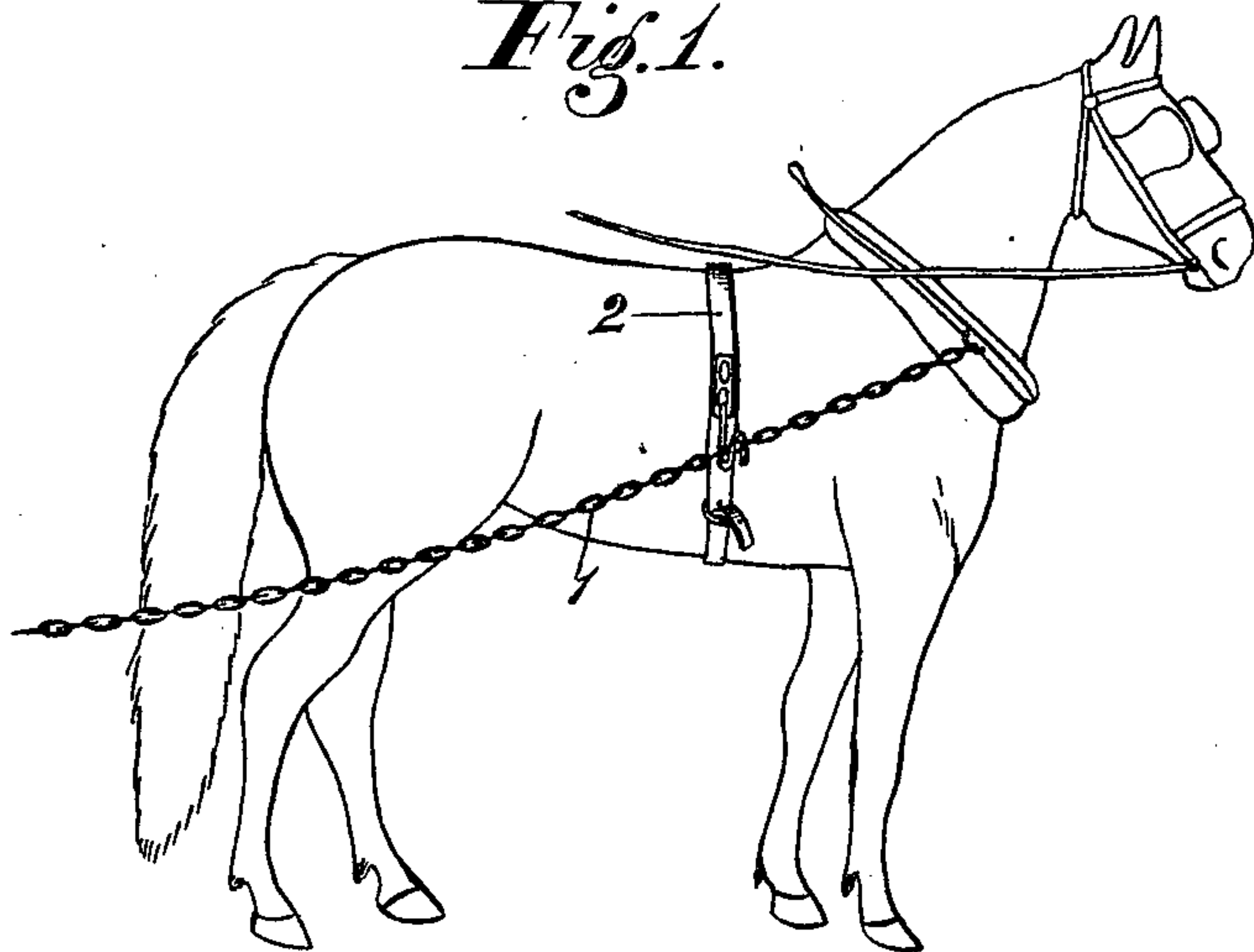
Patented Oct. 24, 1899.

W. H. THURMOND.  
BACK BAND AND TRACE CONNECTOR.

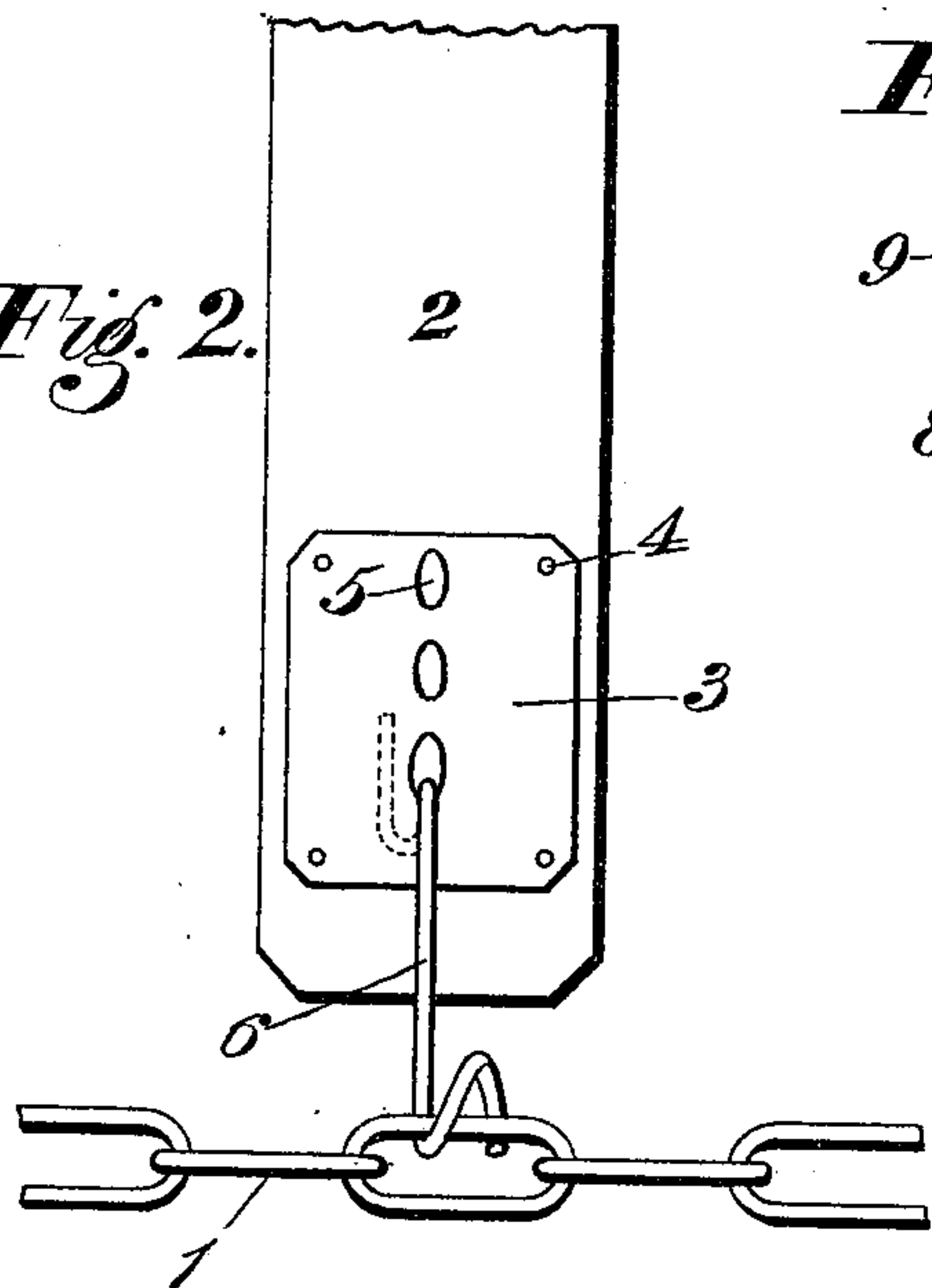
(Application filed May 6, 1899.)

(No Model.)

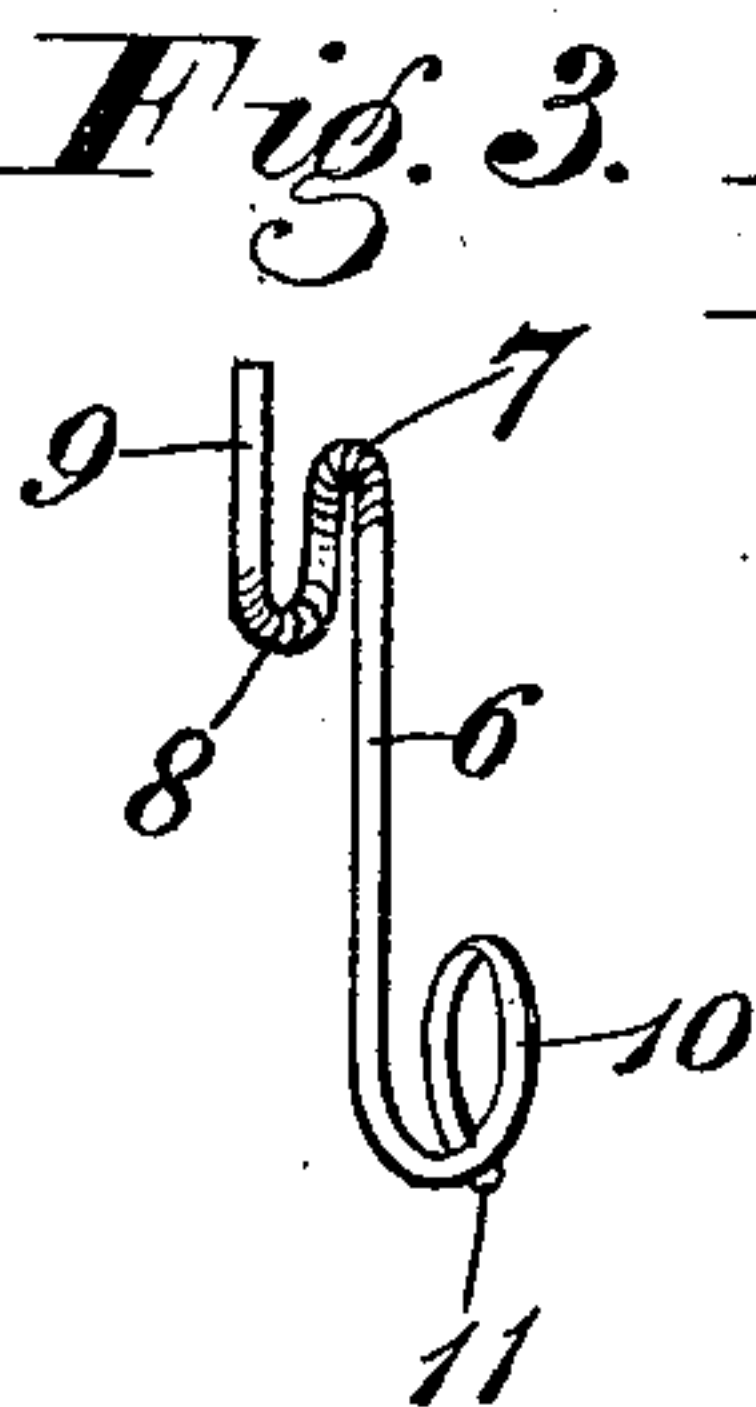
*Fig. 1.*



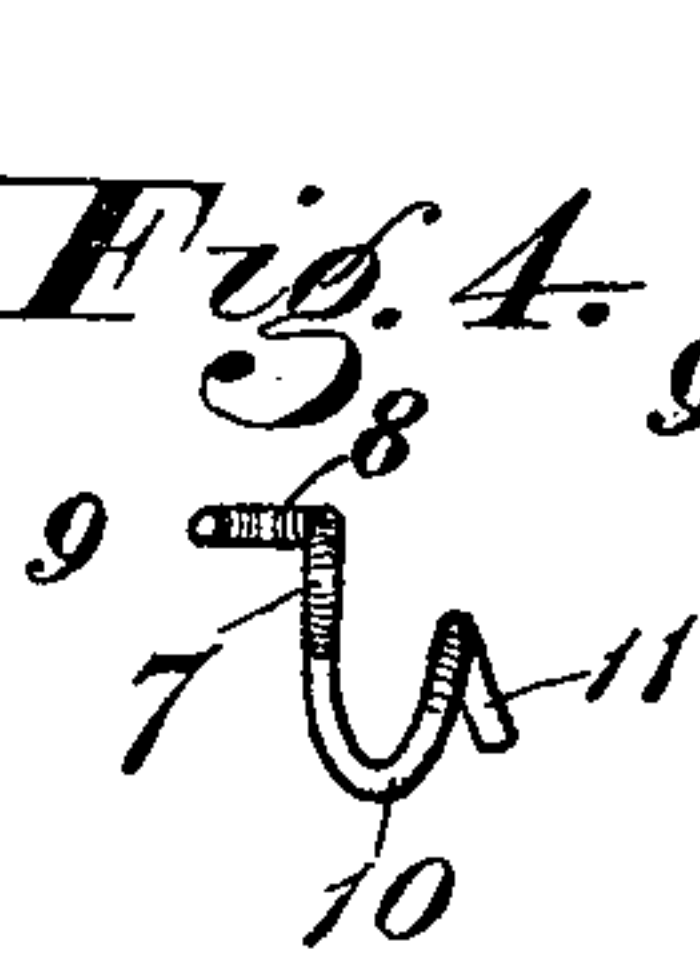
*Fig. 2.*



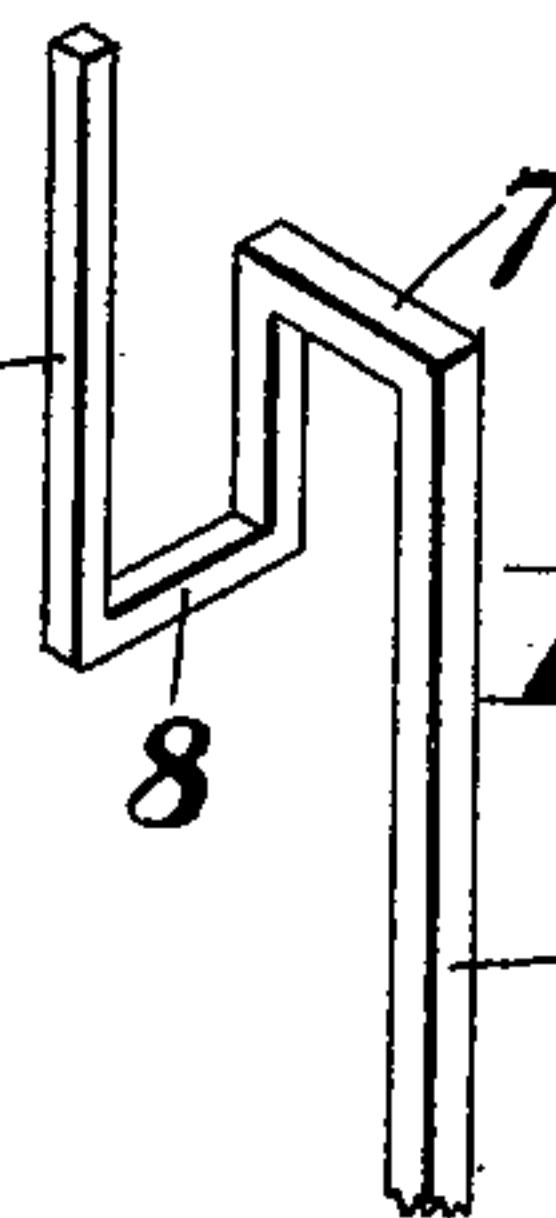
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

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TO J. M. HARRISON, OF SAME PLACE.

## BACK-BAND AND TRACE CONNECTOR.

SPECIFICATION forming part of Letters Patent No. 635,408, dated October 24, 1899.

Application filed May 6, 1899. Serial No. 715,867. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. THURMOND, a citizen of the United States, residing at Forsyth, in the county of Monroe and State of Georgia, have invented certain new and useful Improvements in Harness Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in harness, and more particularly to a securing device for holding the trace-chain or tug in position at the side of the animal.

The object of my invention is to provide a simple and cheap, though reliably efficient, device which may be instantly adjusted in its operative position and as quickly removed therefrom.

A further object is to reliably hold the trace-chain in place, though permitting it to have more or less freedom of longitudinal movement, thereby preventing any binding or irritation of parts.

Other objects and advantages will be made fully apparent from the following specification considered in connection with the accompanying drawings, in which—

Figure 1 is a perspective view showing my invention applied to use upon a harness having chain traces. Fig. 2 is a plan view showing my attachment upon a larger scale from that illustrated in Fig. 1. Fig. 3 is a perspective view showing my adjustable securing device removed from its coöperation with the anchoring-plate shown in Fig. 2. Fig. 4 is a top view of my securing device shown in Fig. 3. Fig. 5 illustrates the shape of the upper portion of the device shown in Fig. 3, such shape being more clearly defined or brought out by a square piece of wire.

Briefly stated, my invention consists in a trace-chain-holding device and a coöperating plate designed to be attached to the back-band, said plate being provided with a series of apertures, in which the device may be adjustably secured.

Referring to the details of my invention and the parts necessary to illustrate the use

thereof, 1 designates an ordinary trace-chain, while 2 indicates the back-band, constructed substantially in the usual manner and having secured to each side thereof an anchoring-plate 3, which is held in position preferably by the rivets 4 or other suitable means.

By reference to Fig. 2 it will be observed that I provide in the plate 3 a series of vertically-alined apertures 5, in one of which the upper end of my improved trace-holding device 6 is adjusted.

My trace-securing device 6 is provided at its upper end with the downwardly and laterally curved section 7, the U-shaped section 8, which is disposed in a plane at right angles to the plane occupied by the curved section 7, and the guiding-terminal 9. The curved or hook section 7 engages the lower edge of one of the apertures 5 after the U-shaped sections 8 and 9 have been wholly entered through said apertures. The disposition therefore made of these parts may be stated to be as follows: The curved section 7 reaches directly inward through the aperture 5 toward the animal, while the U-shaped section 8 rests snugly against the back-band or parallel with the body of the animal, while the guiding section or stem 9 enables the device to be readily entered through one of the apertures, and yet permits the same from becoming casually displaced therefrom, and also in connection with the U-shaped section 8 to hold the device against any lateral play whatever, though permitting the lower end thereof to move forward or backward to accommodate the movement of the trace-chain.

The lower end of my trace-securing device is provided with an open ring-section consisting of the curved member 10 and the downwardly-extending terminal 11, which latter is so disposed that it lies, preferably, out of contact with the body portion, and thereby readily enables the trace-chain to be slipped between said parts and enables said chain or one link thereof to be brought into engagement with the hook formed by said open link, as shown in Fig. 2, or the entire link may, if desired, be disposed within the curved member.

By disposing the chain as shown in Fig. 2 it is obvious that it may be readily disengaged from its position, though it will be reliably



held against casual displacement, while at the same time the chain will have sufficient longitudinal movement to enable it to accommodate itself to all the varying situations in which it is employed.

In Fig. 1 I have shown the trace-chain as wholly disposed within the open ring provided at the lower end of the securing device, and it is clear that said chain may be very promptly disengaged when desired by moving the same below the end of the terminal 11 and then raising the chain upward between said section and the body portion.

In order to more clearly bring out the fact that the curved section 7 and the U-shaped section 8 are disposed at right angles to each other, attention is called to Fig. 5, wherein it will be seen that instead of employing a wire of round form in cross-section I have employed a wire which is square in section, thereby enabling the construction to be readily determined. In practice, however, it is thought that my trace-holding device may be very readily formed of a piece of wire of suitable size and material, as shown in Figs. 2 and 3, thereby producing the device at a very low price, and since the anchoring-plate 3 may be cheaply stamped from a piece of suitable sheet metal the entire holder may be produced at a minimum cost, which will enable it to supersede the ordinary buckle usually employed for this purpose.

While I have described the preferred construction to be employed in producing the various parts of my improved trace-holding device, it will be understood that I desire to comprehend in this application the substantial equivalent thereof, and I do not therefore wish to be confined strictly to the exact showing I have herein made.

Believing that the advantages and use of my improved trace-securing device have been made fully apparent from the foregoing specification and the accompanying drawings, I will dispense with further reference to the details thereof.

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

A harness attachment consisting of an anchoring-plate provided with apertures in combination with a trace-holding device having upon its upper end a hook-section provided with a lateral extension and a vertical stem carried by said lateral extension, said stem resting at one side of the aperture and extending above the same, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. THURMOND.

Witnesses:

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