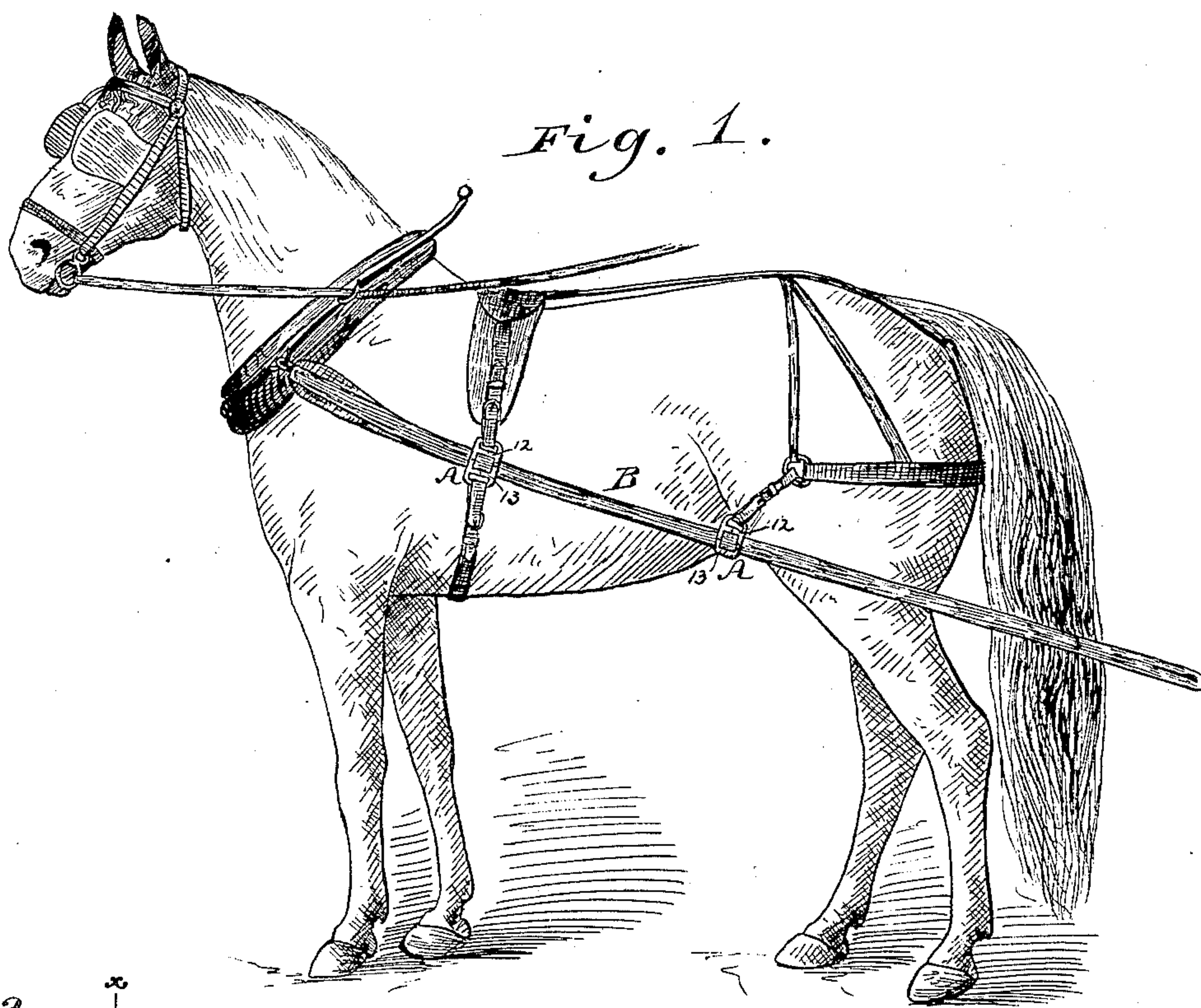


(No Model.)

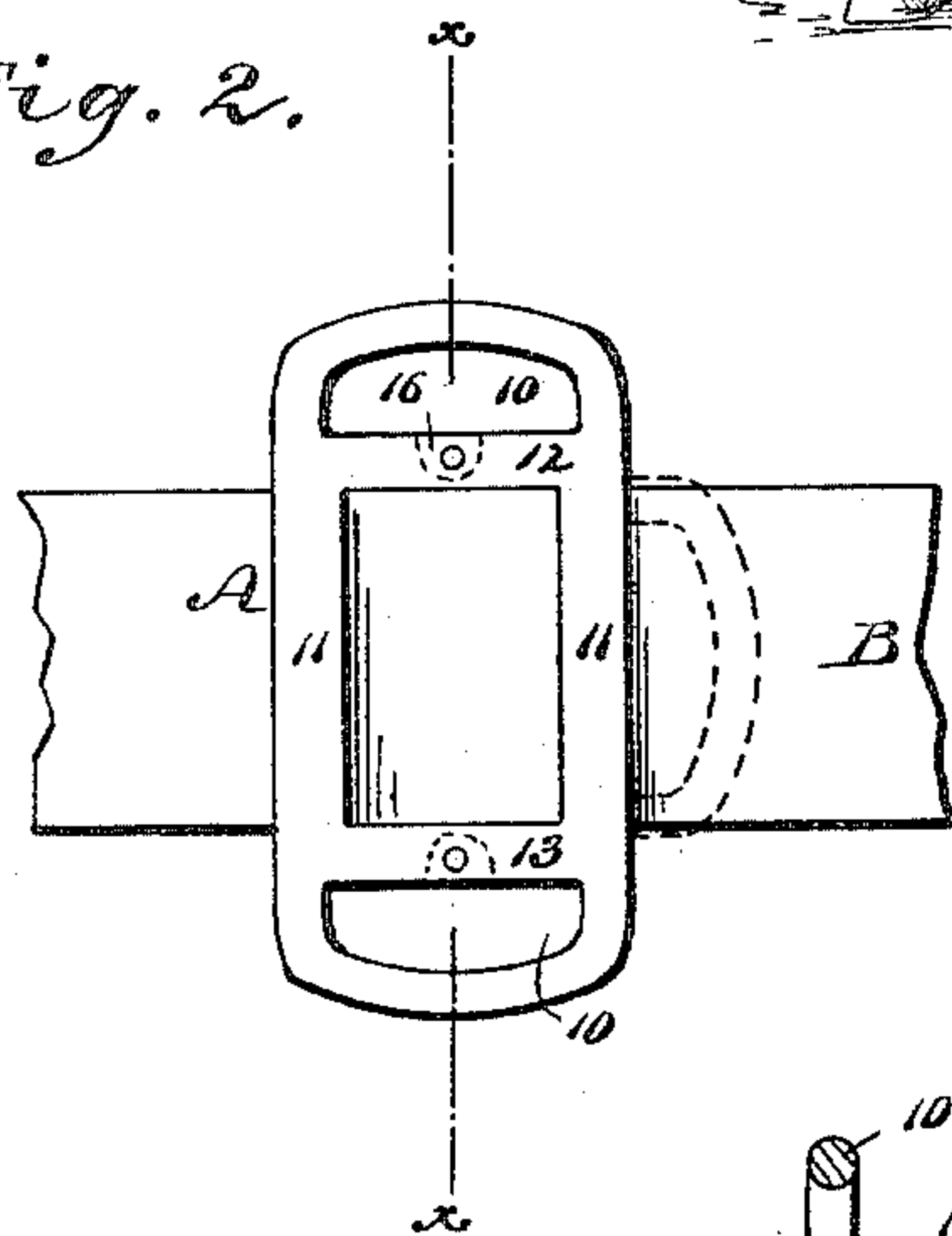
A. HARTMAN.  
TRACE CARRIER.

No. 433,287.

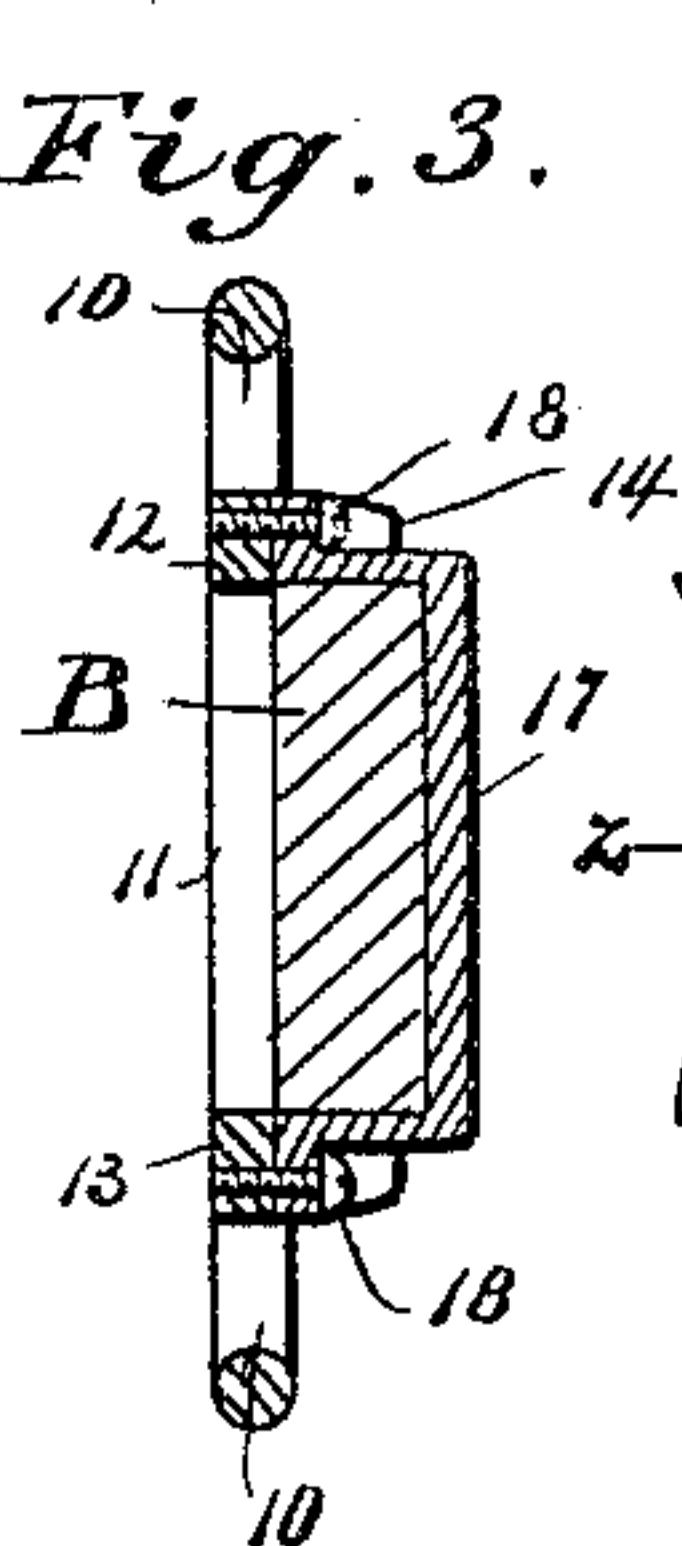
Patented July 29, 1890.



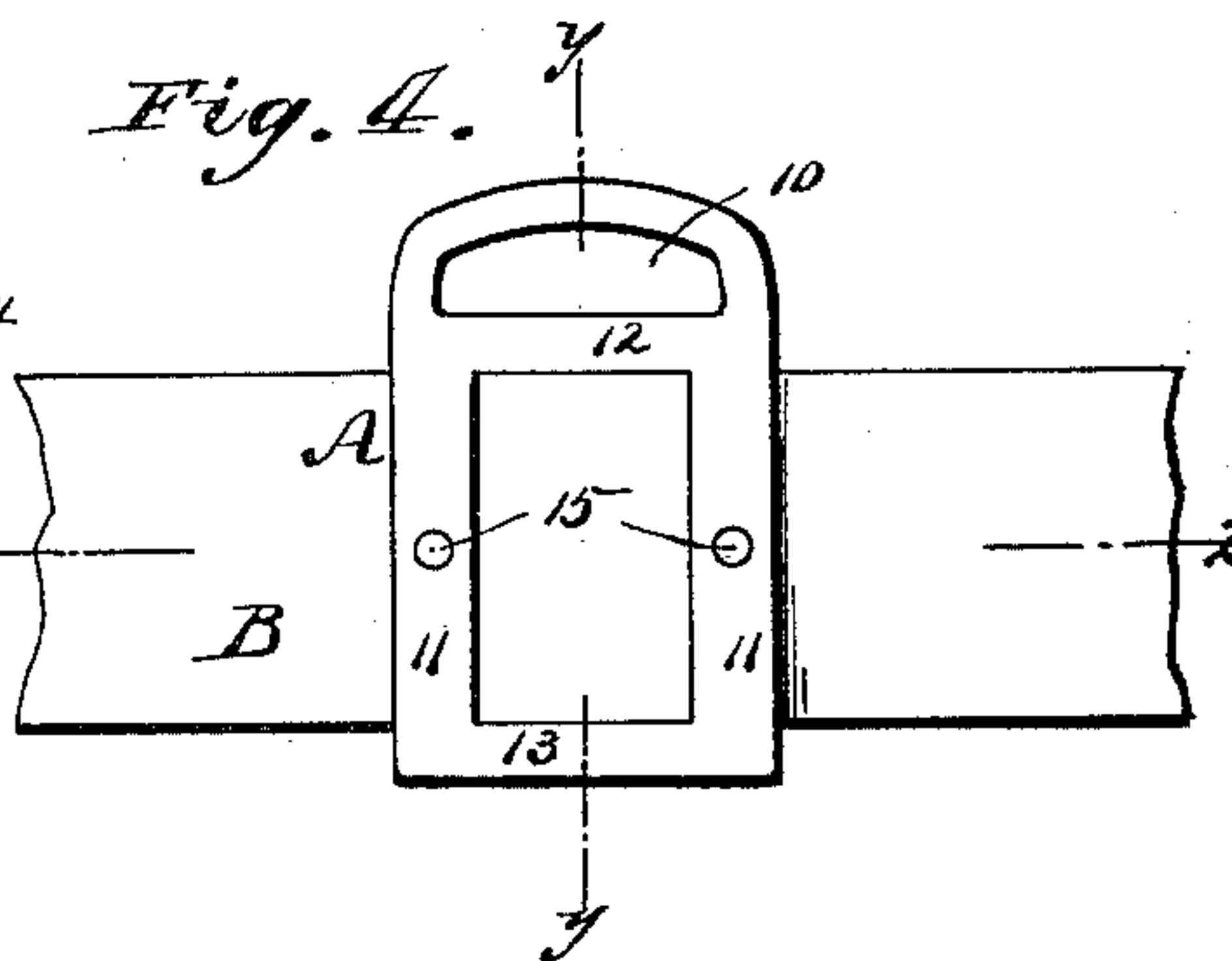
*Fig. 2.*



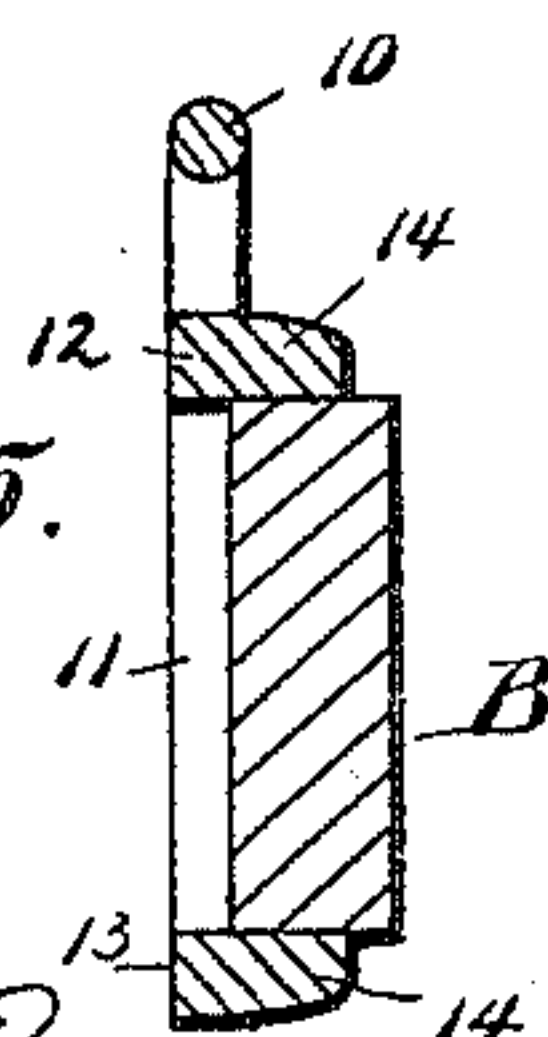
*Fig. 3.*



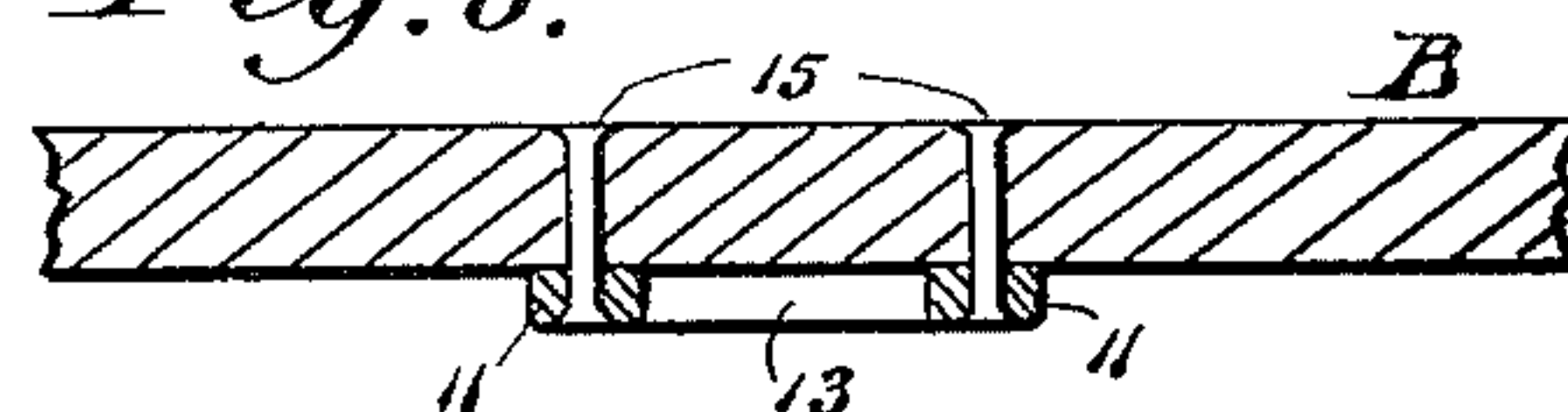
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



WITNESSES:

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# UNITED STATES PATENT OFFICE

ANDREW HARTMAN, OF CHICAGO, ILLINOIS.

## TRACE-CARRIER.

SPECIFICATION forming part of Letters Patent No. 433,287, dated July 29, 1890.

Application filed August 23, 1889. Serial No. 321,750. (No model.)

*To all whom it may concern:*

Be it known that I, ANDREW HARTMAN, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Trace-Carriers, of which the following is a full, clear, and exact description.

My invention relates to an improvement in trace-carriers applicable to all kinds of harness, team-traces included, and has for its object to provide a device of simple and economic construction, which when applied to a trace will effectually prevent the same from being chafed, as no portion of the harness usually connected to the trace is brought in contact therewith.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

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

Figure 1 illustrates the application of the carrier to a harness. Fig. 2 is a front elevation of one form of the device. Fig. 3 is a section on line *xx* of Fig. 2. Fig. 4 is a front elevation of a slightly-modified form of the device. Fig. 5 is a section on line *yy* of Fig. 4, and Fig. 6 is a transverse section on line *zz* of Fig. 4.

The device is usually made of metal, and consists of a preferably-rectangular body A, having formed thereon one or more loops or eyes 10.

The form of carrier shown in Fig. 2, which I will first describe, is provided with two eyes or loops, and is adapted to receive the billets of the belly-band and billet of the saddle. The body comprises two parallel side bars 11, flat upon the under face, for contact with the outer face of the trace, and a top and a bottom cross-bar 12, and 13, said cross-bars being made to extend rearward at an angle to form a lip 14, (best shown in Fig. 5,) for contact with the upper and lower edges of the trace. Integral with the body at the top and bottom the loops or eyes 10 are formed, ex-

tending, preferably, from side to side, and in straps or billets are to be attached to the sides of the carrier loops or eyes may be formed at that point, as illustrated in dotted lines.

The device is placed upon the outer face of the trace B in such manner that the lips 14 will bear against the upper and lower edges thereof.

The attachment may be effected in many ways, two of which I have illustrated in the drawings. The first consists of passing rivets 15 through the side pieces and through the trace, as shown in Figs. 4 and 6. The other mode of attachment is illustrated particularly in Figs. 2 and 3, in which a recess 16 is produced in the lips 14 at or near the center, as shown in dotted lines in Fig. 2, and a U-shaped metal strap 17 is made to clamp the back of the trace, and the extremities of said strap are made to pass into the recess 16, and are secured to the cross-bars by a screw 18 or equivalent fastening device.

In Fig. 4 I have shown a device adapted for use upon a trace for connecting the same with the back-strap or trace-carrier strap, as shown in Fig. 1, or to straps similarly situated, and to that end a loop or eye is formed upon one end only.

If in practice it is found desirable, and to economize in metal, the lower cross-bar 13 may be dispensed with and the side bars shortened. This construction especially may be employed where but one loop is necessary—as, for instance, in the form of device shown in Fig. 4. I prefer, however, to use two cross-bars in the construction of the body, in order that their loops may clamp the top and the bottom of the trace, and thereby relieve the fastening devices from strain.

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

A trace-carrier consisting in parallel side bars 11, top and bottom bars 12 13, at right angles to the said bars 11 and lying in the same plane therewith, the flanges or lips 14, projecting outwardly from the bars 12 13 and disconnected at their outer longitudinal edges and at their ends to form an open space to permit the carrier to be pressed onto a

trace until the bars 11 rest against its outer  
face, the flanges 14 being recessed at 16 and  
the bars 12 13 being apertured at said re-  
cesses, the metal strap 17, having parallel ends  
5 provided with apertured extremities, which  
rest in said recesses, screws or rivets 18, ex-  
tending through said apertures and securing

the strap to said bars 12 13 and the loop 10,  
substantially as set forth.

ANDREW HARTMAN.

Witnesses:

GEORGE ROSSMAN,  
CHARLES L. SCHAAR.