

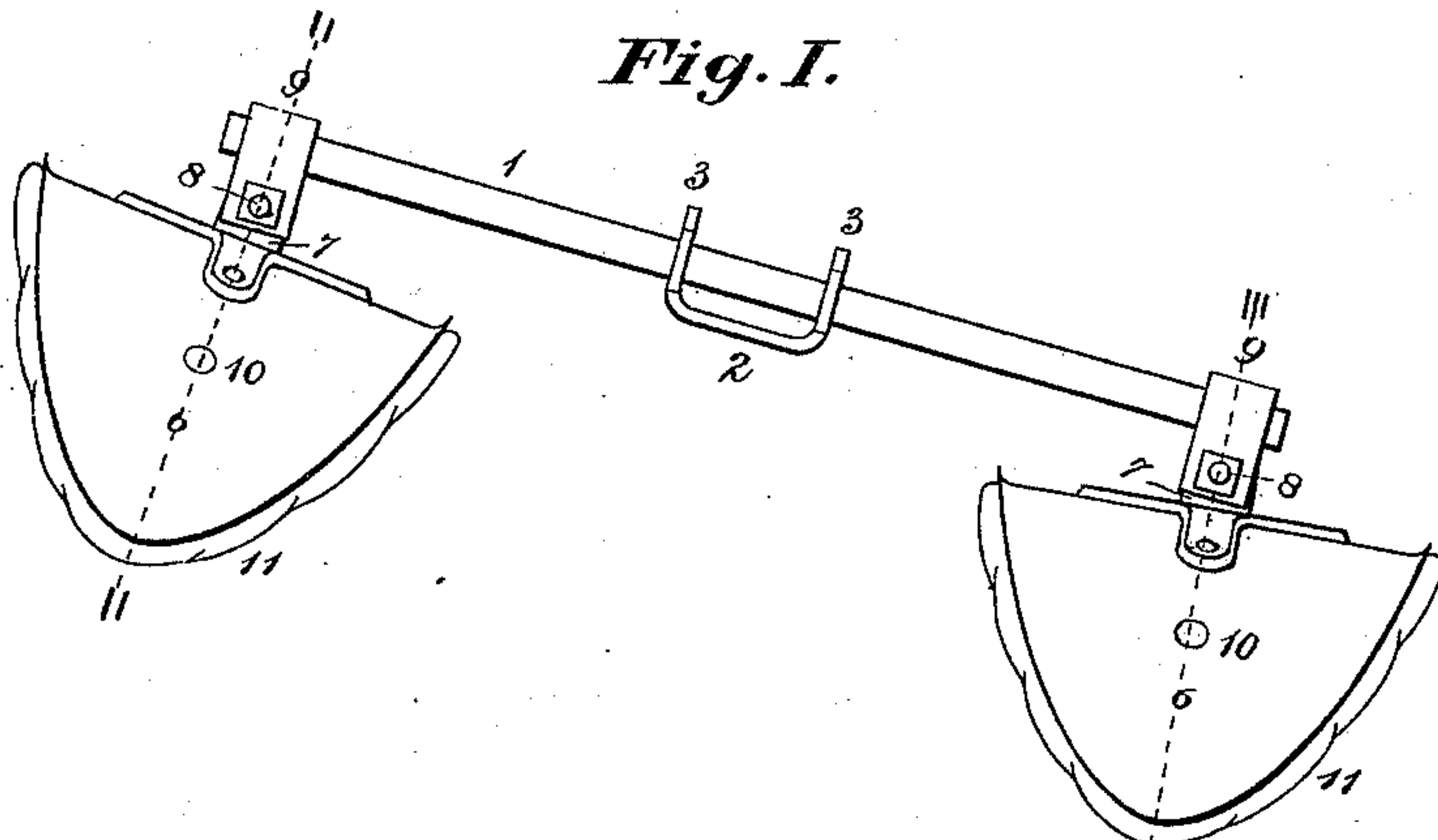
(No Model.)

J. MORROW.  
HORSE COLLAR PAD.

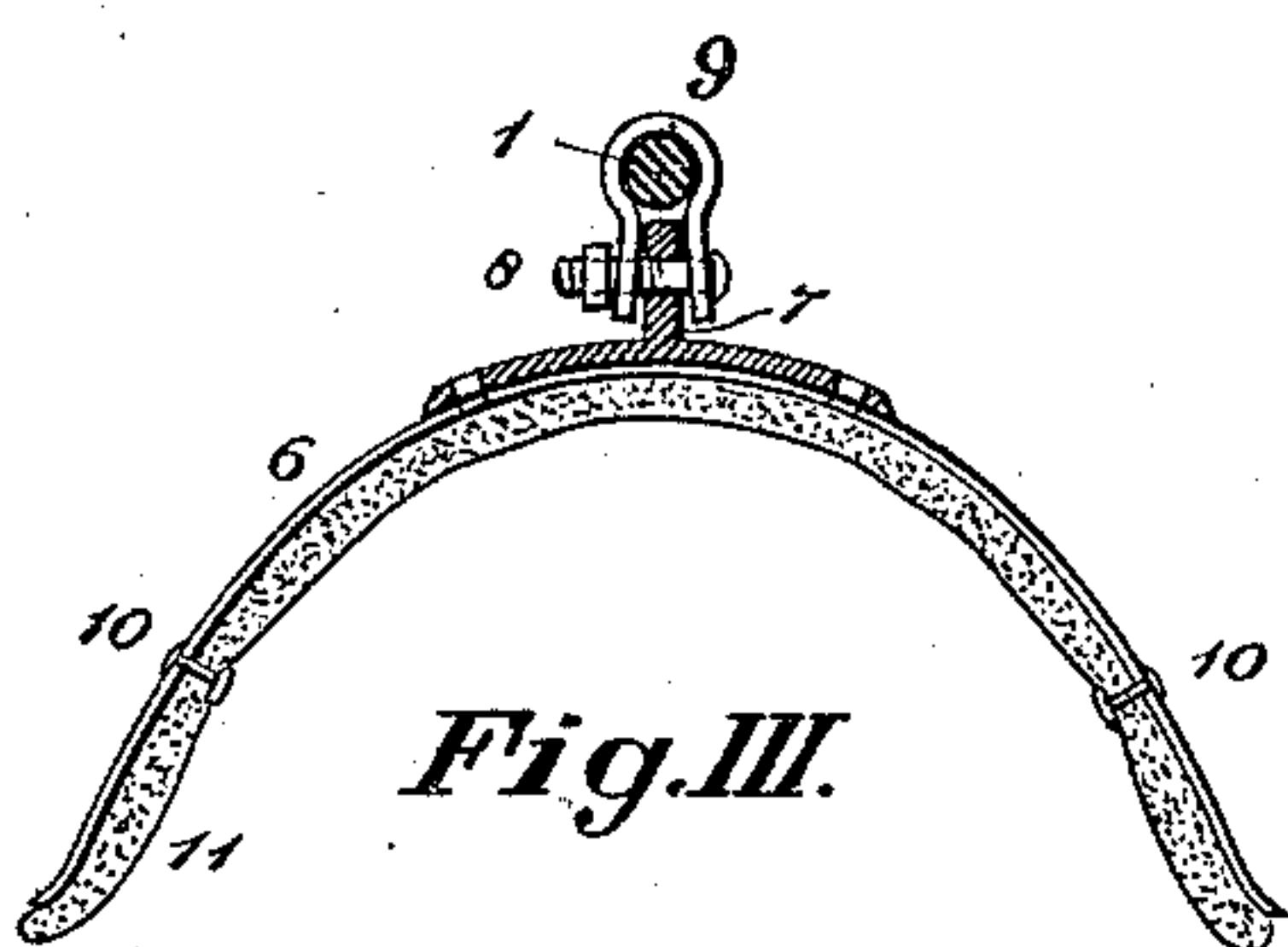
No. 369,650.

Patented Sept. 6, 1887.

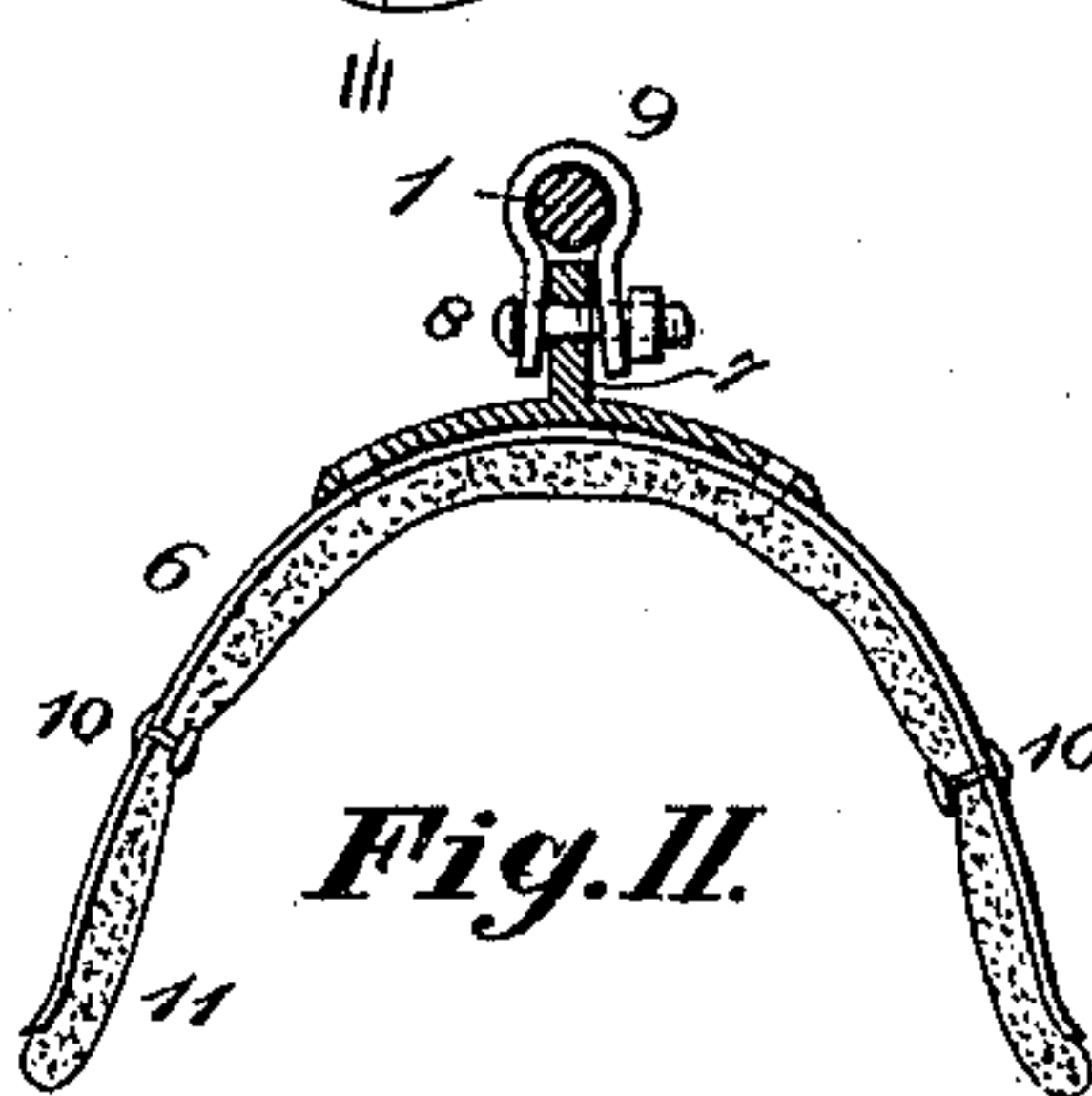
*Fig. I.*



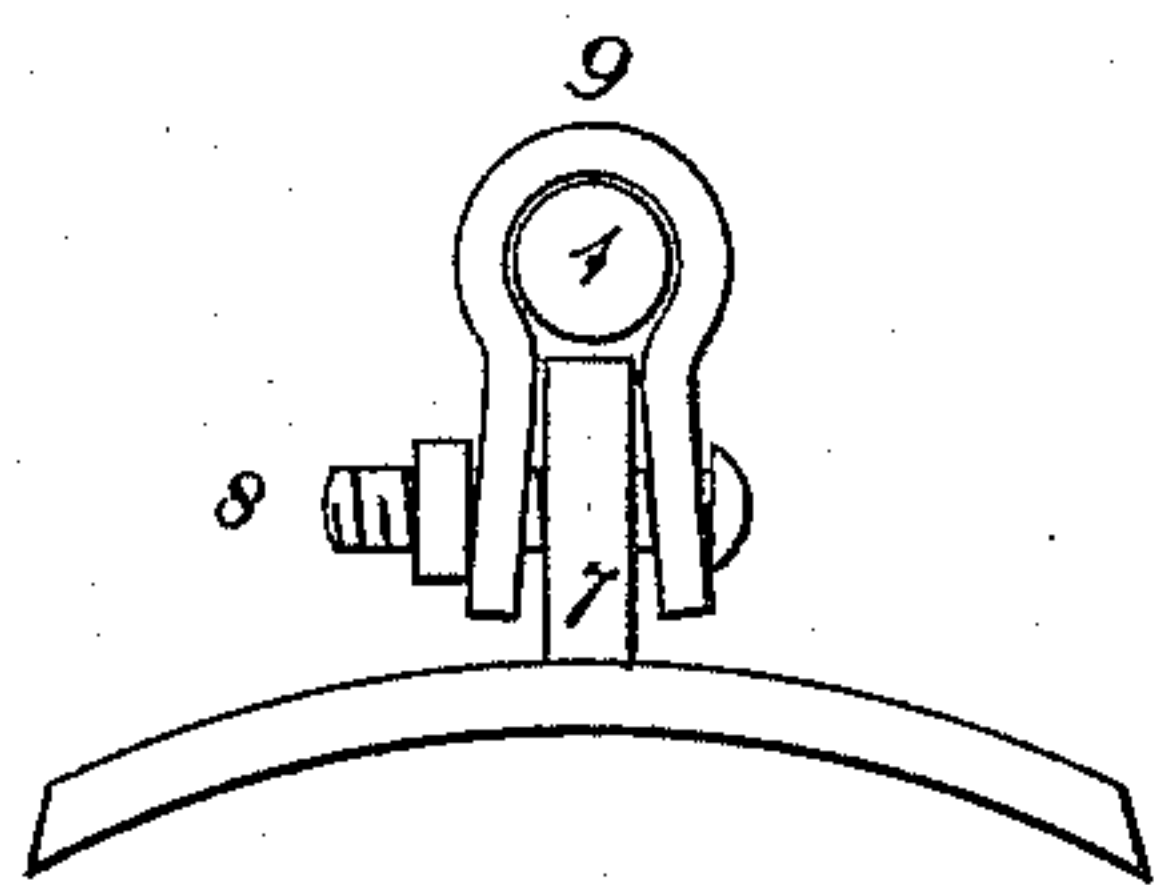
*Fig. III.*



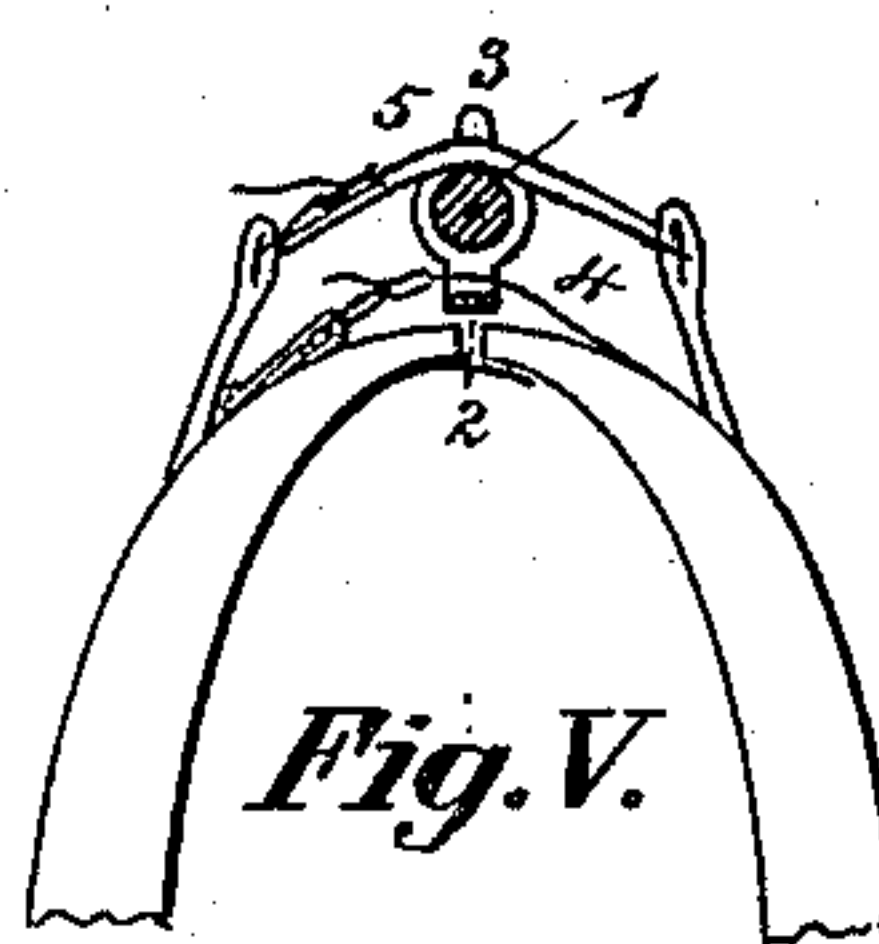
*Fig. II.*



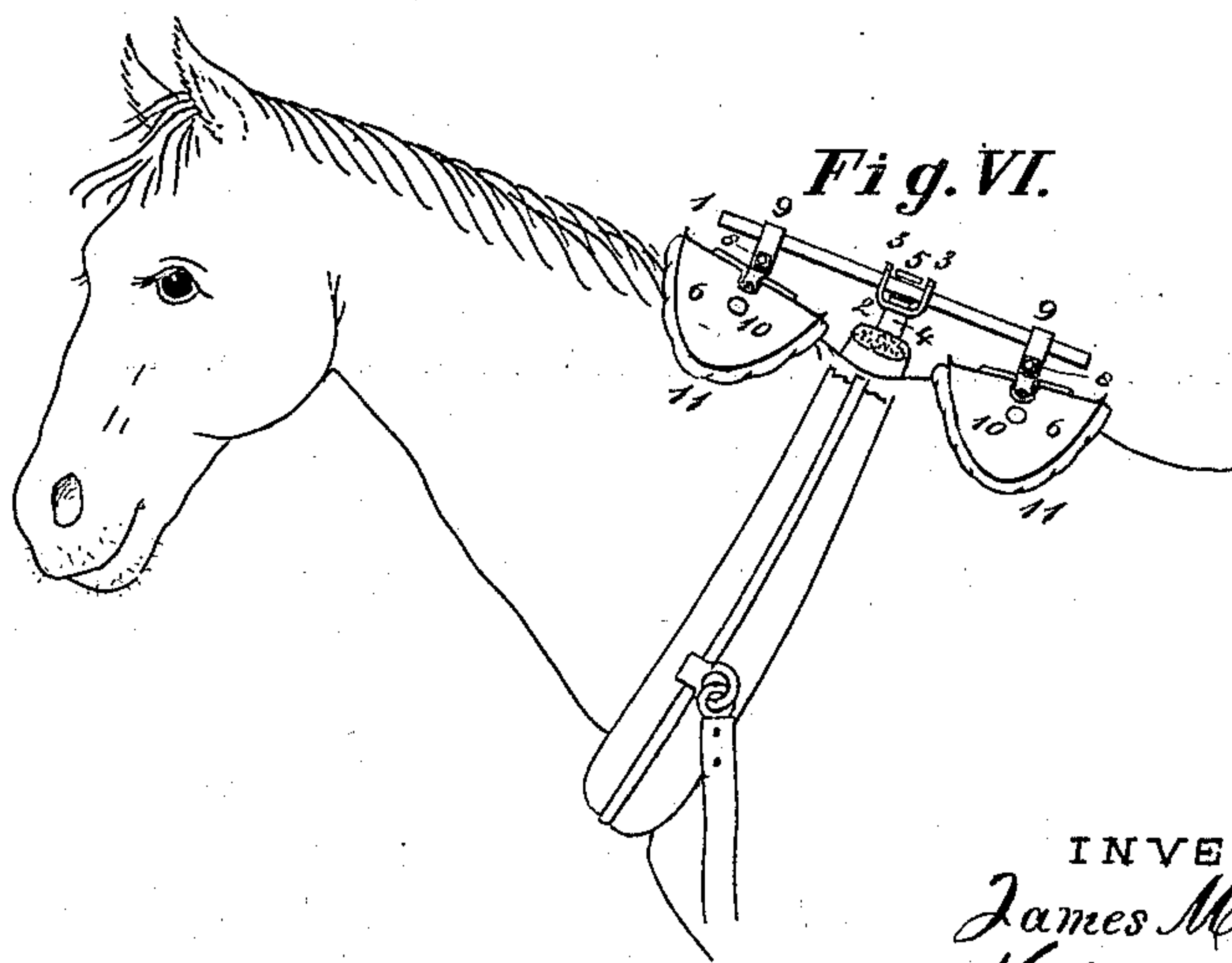
*Fig. IV.*



*Fig. V.*



*Fig. VI.*



ATTEST  
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INVENTOR  
*James Morrow*  
*by Knight Bros.*  
ATTYS



# UNITED STATES PATENT OFFICE.

JAMES MORROW, OF WASHINGTON COURT-HOUSE, OHIO, ASSIGNOR OF TWO-THIRDS TO RICHARD H. MORROW, OF SAME PLACE, AND GEORGE W. MORROW, OF STEUBENVILLE, OHIO.

## HORSE-COLLAR PAD.

SPECIFICATION forming part of Letters Patent No. 369,650, dated September 6, 1887.

Application filed June 22, 1887. Serial No. 242,154. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES MORROW, of Washington Court-House, Fayette county, Ohio, have invented a new and useful Improvement in Collar-Supporting Pads for Draft-Animals, of which the following is a specification.

My present invention is an improvement in the class of collar-supporting pads exemplified in the subject-matter of the Patent No. 363,962, granted to me on the 31st of May, 1887, to which reference may be had for specific details not here shown. In my present improvement the curved bearing-plates, instead of having their lower edges pivoted to rigid yokes, as in the aforesaid patent, are at or about the middle of their backs pivoted or hinged directly to the supporting-bar, so as to leave the edges of the said plates free and at liberty to adapt themselves to the shape and motions of the animal, and at the same time to secure a more simple and compact construction in which the supporting-bar is brought nearer to the bearing-plates. The form here selected to illustrate my improvement has the concave surfaces of its bearing-plates padded.

In the accompanying drawings, Figure I is a side elevation of a collar-supporting pad embodying my present improvements. Figs. II and III are sections on the lines II and III, respectively. Fig. IV is a full-size elevation of one of the bearing-plate ears, showing its adjustable hinge attachment to the supporting-bar. Fig. V is a cross-section of the supporting-bar in the plane of an ordinary work-collar, the figure showing the upper part of such a collar with the hame-strap engaged over the supporting-bar and the collar-strap engaged over the supporting-bar stirrup. Fig. VI shows my duplex pad in place upon the animal.

1 represents a supporting rod or bar, which may be substantially such as described in my aforesaid patent.

2 is a stirrup hung by its ears 3 upon the said supporting-bar at or near the mid-length thereof, and which, when the pad is in use, receives the collar-strap 4, the hame-strap 5

being at the same time engaged over the bar 50 itself, as shown in Fig. V.

6 represents two pieces of sheet steel or other metal that constitute my elastic bearing-plates, of which each plate is bent into the represented saddle form, so as to conform to and rest easily upon the animal, the front pad resting upon the animal's neck and the rear pad resting upon his withers just behind the collar, as shown in Fig. VI.

Extending vertically from at or near the center of the crown or back of each bearing-plate is a rigid ear, 7, which, being secured by a bolt or screw-threaded pintle, 8, to a clip, 9, that extends downward from the supporting-bar, constitutes an adjustable hinge attachment of said bearing-plate to said supporting-bar, which, while upholding said bar the desired distance above the bearing-plate, permits free vibration of the said plate in the plane of the said supporting-bar about a center of oscillation situated between the said plate and the said bar, and at the same time permits the free expansion or contraction of the lips of either plate to conform to the animal's shape and movements. The clip 9 is preferably constructed of spring-steel, and is so proportioned to the bar 1 and ear 7, respectively, that the screwing home of the bolt-nut to a point which causes the clip to tightly clamp the bar leaves the ear at liberty to freely oscillate about said bolt as a pintle. The screw-bolt having been temporarily loosened, either clip may be shifted longitudinally upon the supporting-bar, so as to place them any desired distance apart to suit the particular animal to which the pad is to be applied. Rivets 10 secure to the under surface of each bearing-plate a pad or lining-piece, 11.

I claim as new and of my invention—

1. The duplex or bridge pad for draft-animals, having the two distinct saddle-formed bearing-pieces 6 6, attached at or about the middle of their crowns by longitudinally-adjustable hinge-clips 7 8 9 to a bar, 1, provided at or about its mid-length with means for supporting the collar, substantially as and for the purposes set forth.

2. The described combination of bar 1, bear-

ing piece or pad 6, the ear 7, the screw bolt or pintle 8, and the clip 9, by which the bearing-pad is hinged to the supporting-rod, as and for the purposes set forth.

5 3. The collar-supporting pad for draft-animals, consisting of the combination of the supporting-bar and stirrup 1 2 3 and the pair of self-adjusting bearing-plates 6 6, having their axes of oscillation between said plates and  
10 said bar, as and for the purposes set forth.

4. In a collar-supporting pad for draft-ani-

mals, the combination of the supporting-bar 1, the stirrup 2 3, and the two bearing-plates 6 6, of which each has between its upper surface and the said bar a hinged attachment thereto, 15 as set forth.

In testimony of which invention I hereunto set my hand.

JAMES MORROW.

Attest:

W. H. DIAL,  
P. R. EYCKE.