

(No Model.)

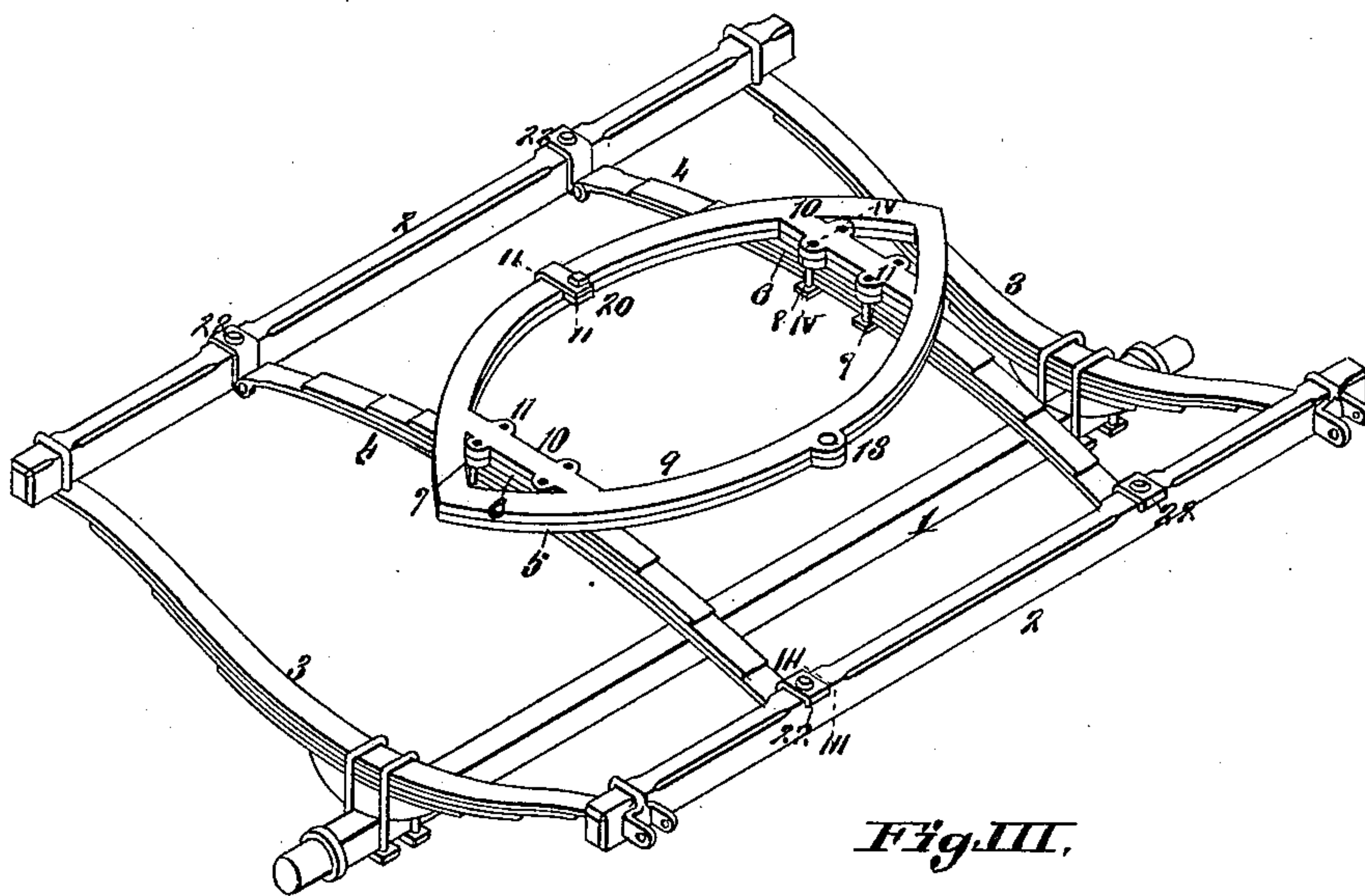
2 Sheets—Sheet 1.

H. H. BOTHE.  
VEHICLE.

No. 463,936.

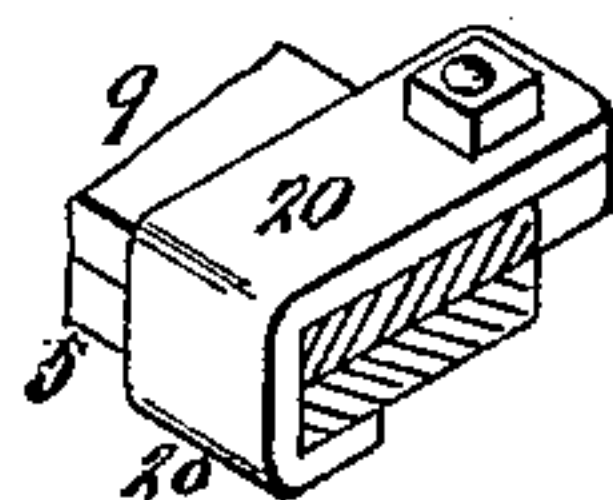
Patented Nov. 24, 1891.

*Fig. I*

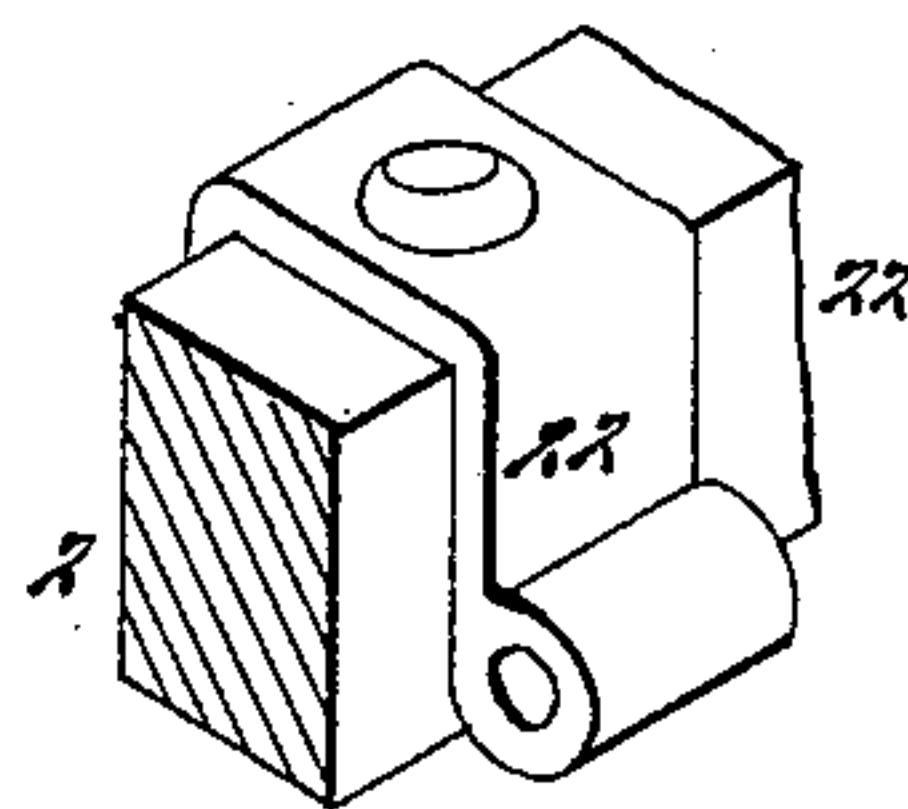
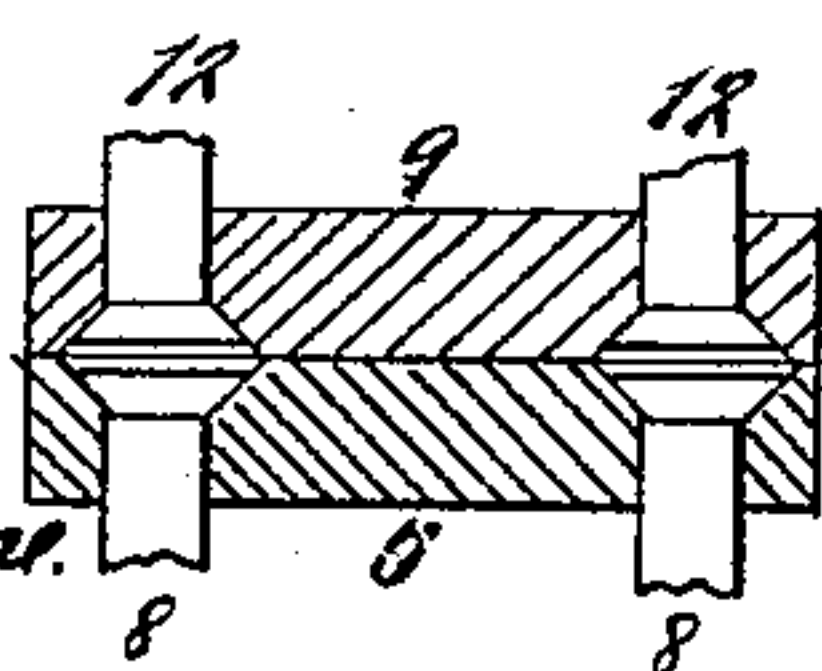


*Fig. III.*

*Fig. II.*



*Fig. IV.*



Attest:  
George E. Cus.

Harry S. Rohrer

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(No Model.)

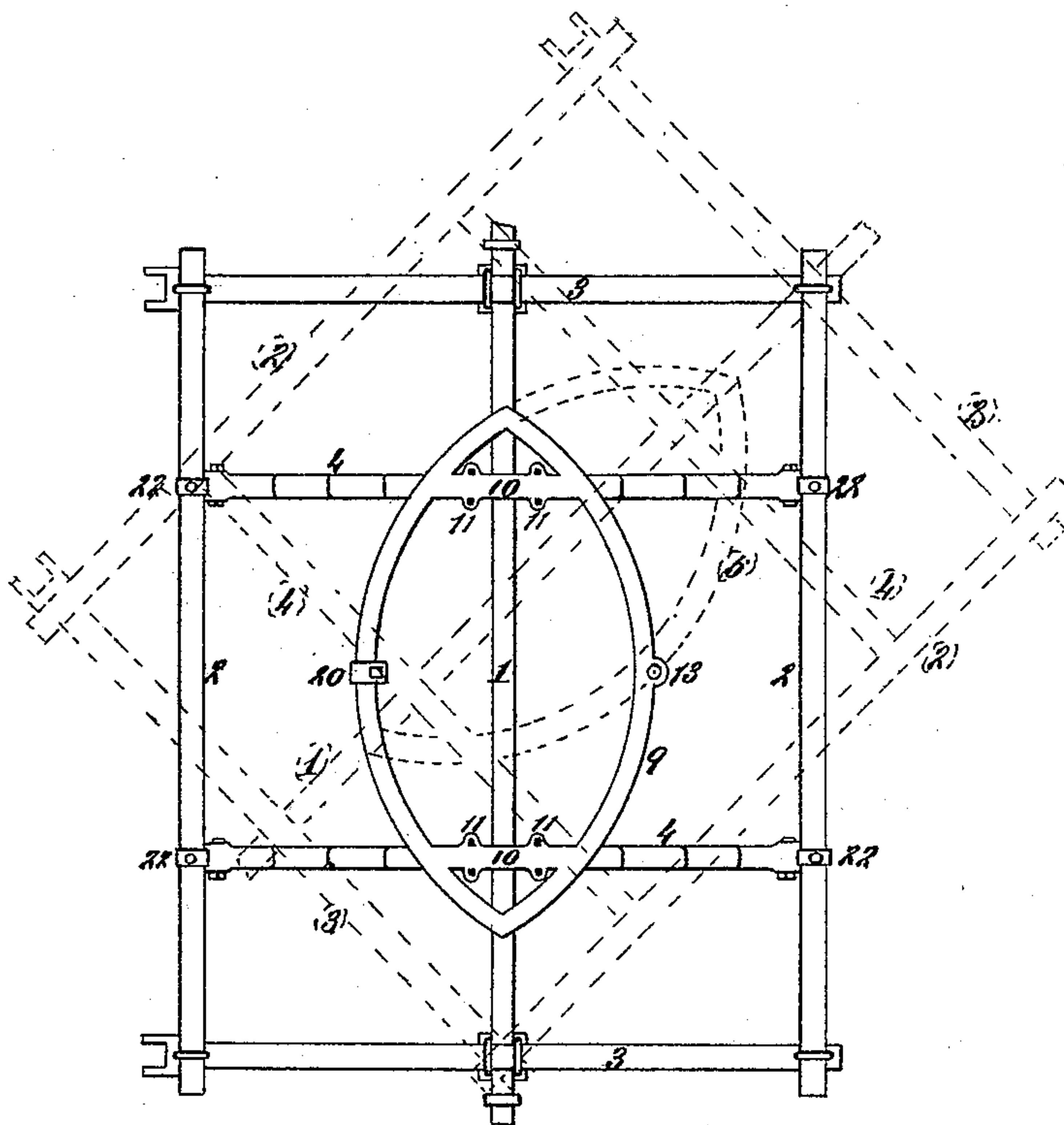
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H. H. BOTHE.  
VEHICLE.

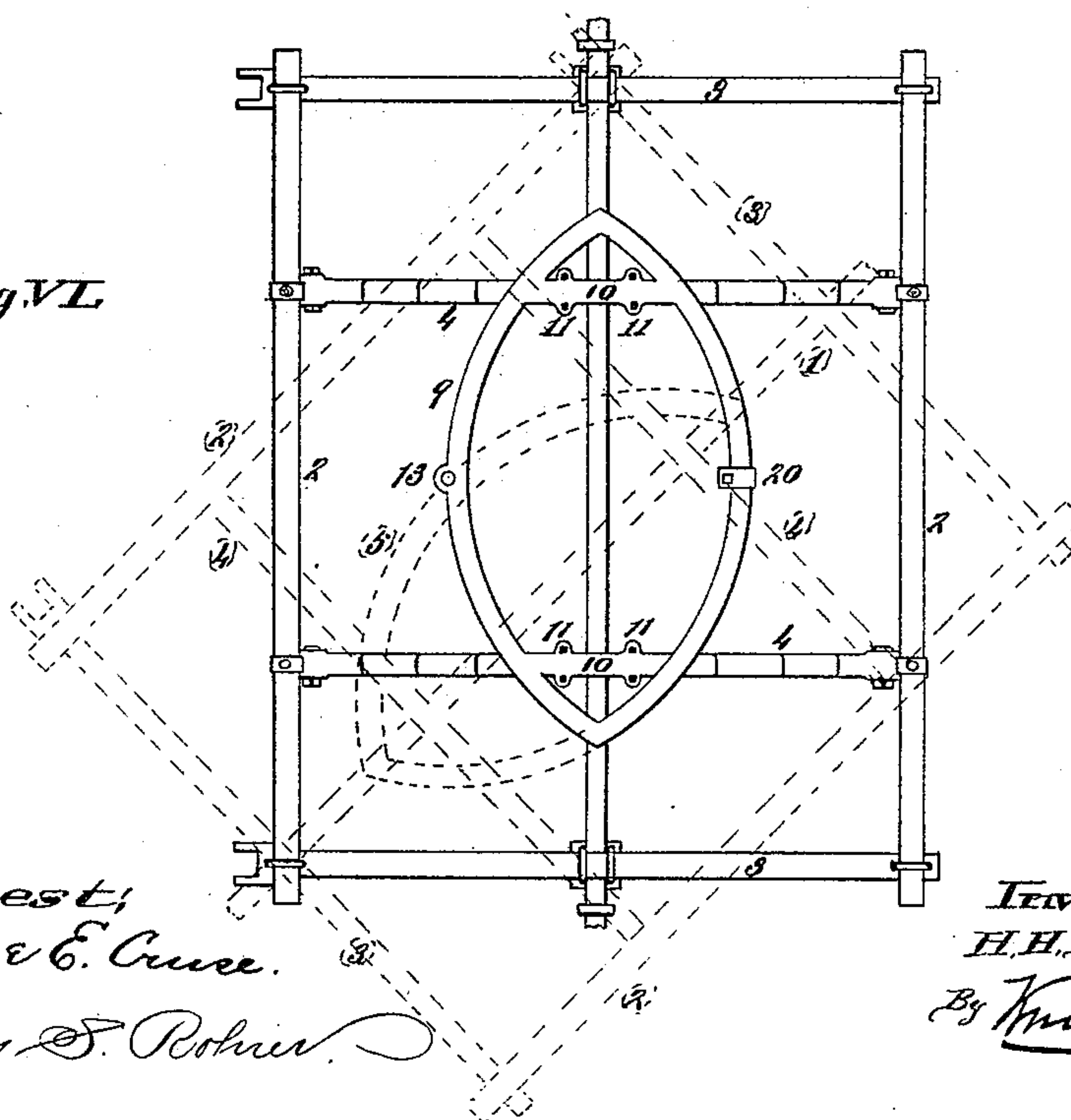
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*Fig. V.*



*Fig. VI.*



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# UNITED STATES PATENT OFFICE.

HERMAN H. BOTHE, OF ST. LOUIS, MISSOURI.

## VEHICLE.

SPECIFICATION forming part of Letters Patent No. 463,936, dated November 24, 1891.

Application filed April 8, 1891. Serial No. 388,101. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN H. BOTHE, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Vehicles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to certain improvements in a fifth-wheel arrangement for vehicles; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a perspective view illustrative of my invention. Fig. II is an enlarged vertical section taken on line II II, Fig. I. Fig. III is an enlarged perspective view of one of the cross-bars taken on line III III, Fig. I. Fig. IV is a similar view taken through the swivel-plates at line IV IV, Fig. I. Figs. V and VI are diagrams illustrating the mode of operation, Fig. V showing the plates pivoted at their inner sides and Fig. VI showing them pivoted at their outer sides.

Referring to the drawings, 1 represents the front axle of the vehicle.

2 represents cross-bars connected to the axle by means of springs 3, and connected together by means of springs 4.

5 represents a plate, preferably of approximately elliptical shape, which is secured to the springs 4, preferably by means of cross-bars 6, formed integral therewith, and which have lugs or projections 7 to receive bolts 8, by which the bars are held to the springs.

9 represents a second plate of the same form and shape as the plate 5, and which has cross-bars 10, formed with ears or lugs 11 for connecting this plate by means of suitable bolts 12 (see Fig. IV) to the body of the vehicle. The plates 5 and 9 are pivoted together at 13. This pivot may either be at the inner sides of the plates, as shown in Figs. I and V, or it may be at the outer sides, as shown in Fig. VI.

When the pivot is at the inner sides of the plates, the vehicle can be turned short around, as the axle, and the parts mentioned between the axle and the plate 5, may be turned to the

position shown by dotted lines in Fig. V without the wheel coming against the body and without the body being provided with a "wheel-house," and by pivoting the plates at their outer sides, as shown in Fig. VI, for bodies having wheel-houses, the vehicle can be turned short around and the wheel-house can be located well to the forward end of the body.

20 represents a clip secured to the plate 9, (see Fig. II,) and which has a downturned end 21 that takes under the lower plate, thus keeping the disconnected sides of the plates from springing apart.

22 represents a clip which may be used to connect the ends of the springs 4 to the cross-bars 2.

It will be understood that the plates 5 and 9 can have their pivot-points either as shown in Fig. I or as shown in Fig. VI without any change being made in the plates. The plates are duplicates and either is adapted to be used uppermost, so that it makes no difference which is secured to the body and which to the running-gear.

I do not wish to be limited to the form of the running-gear which I have shown as consisting of the axles 1, bars 2, and springs 3 and 4, as this may be modified without affecting my invention.

I claim as my invention—

1. In a vehicle, the combination of the plates 5 and 9, connected together at one side and having the bars 6 and 10, respectively, bracing said plates and adapted to be connected to the vehicle-body and running-gear of the vehicle, substantially as and for the purpose set forth.

2. In a vehicle, the combination of the plates 5 and 9, pivoted together at one side and adapted to be respectively secured to the running-gear and body, and a clip 20, holding said plates together at the other side, substantially as and for the purpose set forth.

HERMAN H. BOTHE.

In presence of—

E. S. KNIGHT,

THOS. KNIGHT.