

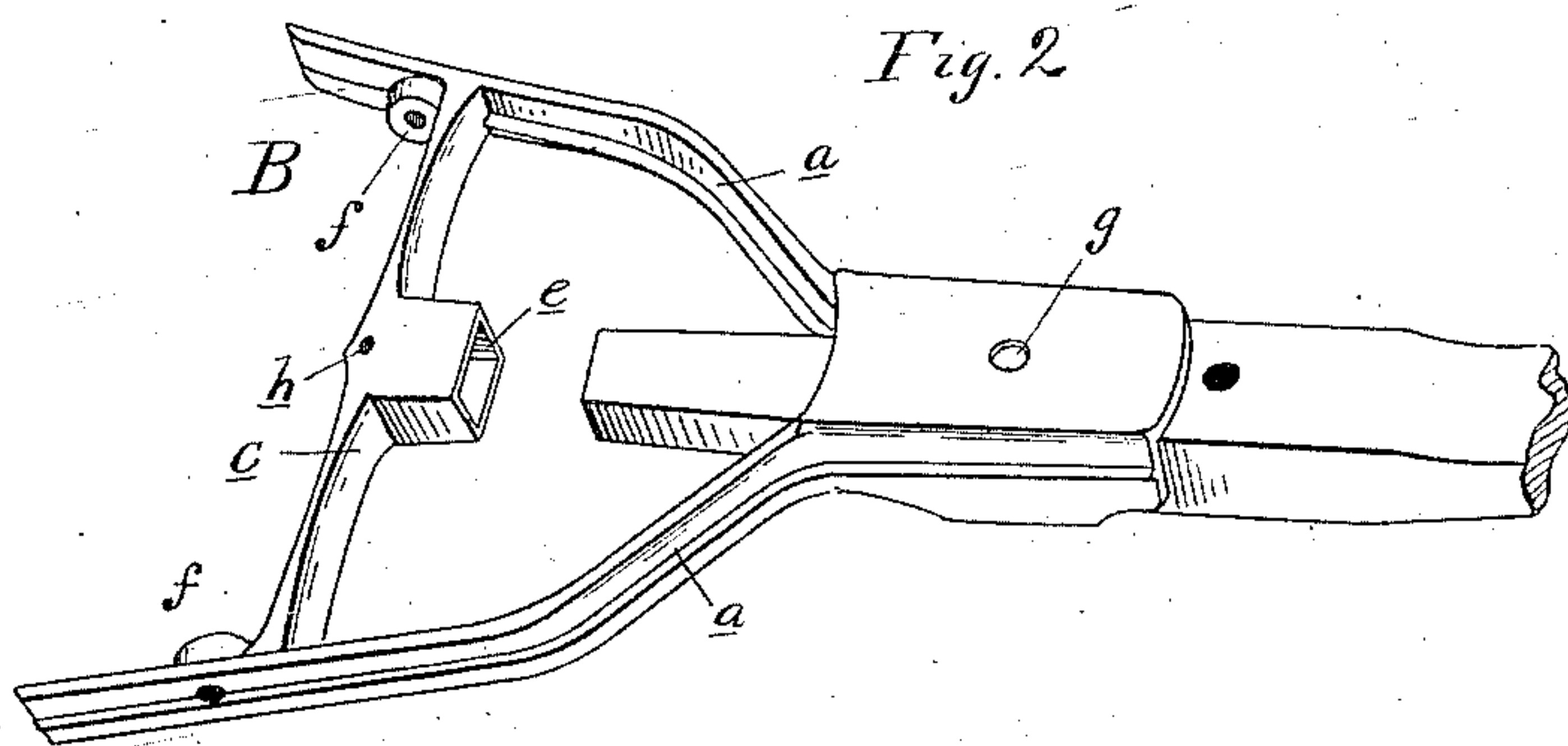
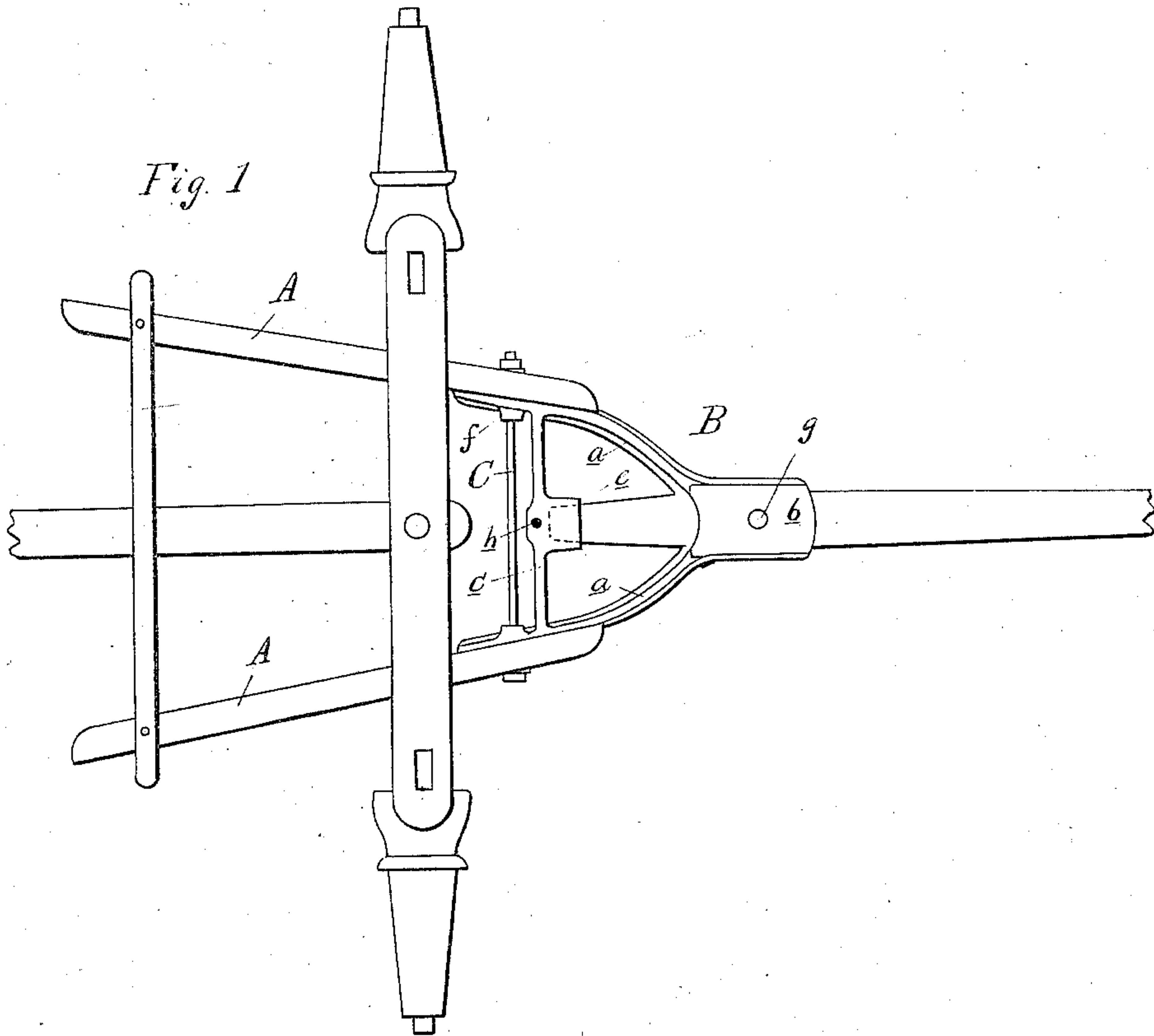
(No Model.)

J. GROH.

DRAW IRON FOR WAGONS.

No. 395,389.

Patented Jan. 1, 1889.



Witnesses:

P. M. Hulbert

J. Paul Mayer

Inventor:

Jacob Groh

By *Messrs. Spang & Co.*
Att'y.

UNITED STATES PATENT OFFICE.

JACOB GROH, OF COSHOCTON, OHIO.

DRAW-IRON FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 395,389, dated January 1, 1889.

Application filed September 5, 1888. Serial No. 284,608. (No model.)

To all whom it may concern:

Be it known that I, JACOB GROH, a citizen of the United States, residing at Coshocton, in the county of Coshocton and State of Ohio, have invented certain new and useful Improvements in Draw-Irons for Wagons, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in draw-irons for wagons; and the invention consists in the improved construction and arrangement of a metallic draw-iron and its combination with the wagon-gear, all as more fully hereinafter described.

In the drawings which accompany this specification, Figure 1 is a plan view of my improved draw-iron connected to the wagon-gear, and Fig. 2 is a detached perspective view thereof.

A represents the front hounds of a wagon running-gear of ordinary description.

B is my improved draw-iron secured to the forward ends of the hounds. This draw-iron consists of the hound-extensions *a a* and socket *b*, the cross-bar *c*, the socket *e*, and the collars *f*, the parts being of metal, preferably cast of malleable iron. The hound-extensions *a a* are adapted to loosely fit between the forward ends of the wagon-hounds. The socket *b* forms a sleeve adapted to receive the tongue and hold it by means of a suitable bolt secured through a hole, *g*, in the socket, and through a corresponding hole in the tongue, which latter may be provided with adjusting-holes.

The cross-bar *c* connects the rear ends of the hound-extensions to strengthen them, and the socket *e* is integrally formed thereon in the center to loosely receive the rear end of the tongue, and the hole *h* is formed thereon to secure the hammer-strap thereto.

The collars are formed integrally with the hound-extension upon the inner face thereof and form bearings for the pivot-rod *C*, which is of suitable length to pass through the hounds and the hound-extensions.

Suitable strengthening-ribs are applied to

the parts to make the device at once light and strong.

A draw-iron thus constructed as described can be readily applied to the ordinary styles of running gears, and, compared with the cost of ironing-hounds in the usual manner, affords quite a saving in time and expense. At the same time the pole is detachably and removably secured, which is a great advantage, as it permits the wagon to occupy less space in a barn and permits of closing the doors when it could not be done otherwise.

I deem it important that the collars *f* be formed to the rear of the cross-bar, and also attach importance to the socket *e*, by means of which piercing of the tongue, either vertically to receive a bolt to hold it between the sides of the socket, or transversely to receive the pivot-rod, is avoided, and all tendency to split and weaken the tongue by such piercing avoided.

What I claim as my invention is—

1. A metallic draw-iron consisting of the hound-extension *a*, the cross-bar *c*, connecting the rear ends thereof, the sockets *b e*, adapted to receive the tongue, and provided with means for securing such tongue and the hammer-strap, and the bearings *f* to the rear of said cross-bar, adapted to receive the pivot-rod, the parts being arranged and combined substantially as described.

2. The combination, with the hounds, of the draw-irons secured to the forward ends thereof and formed with cross-bar *c*, sockets *e* and *b*, and with bearings *f* to the rear of said cross-bar, the tongue supported by said sockets with its rear end forward of the said bearings, and the pivot-rod *C*, connecting said hounds and passing through said bearings independent of the tongue, substantially as shown and described.

In testimony whereof I affix my signature, in presence of two witnesses, this 19th day of June, 1888.

JACOB GROH.

Witnesses:

H. BLACKMAN,
JACOB SCHLARB.