

No. 648,316.

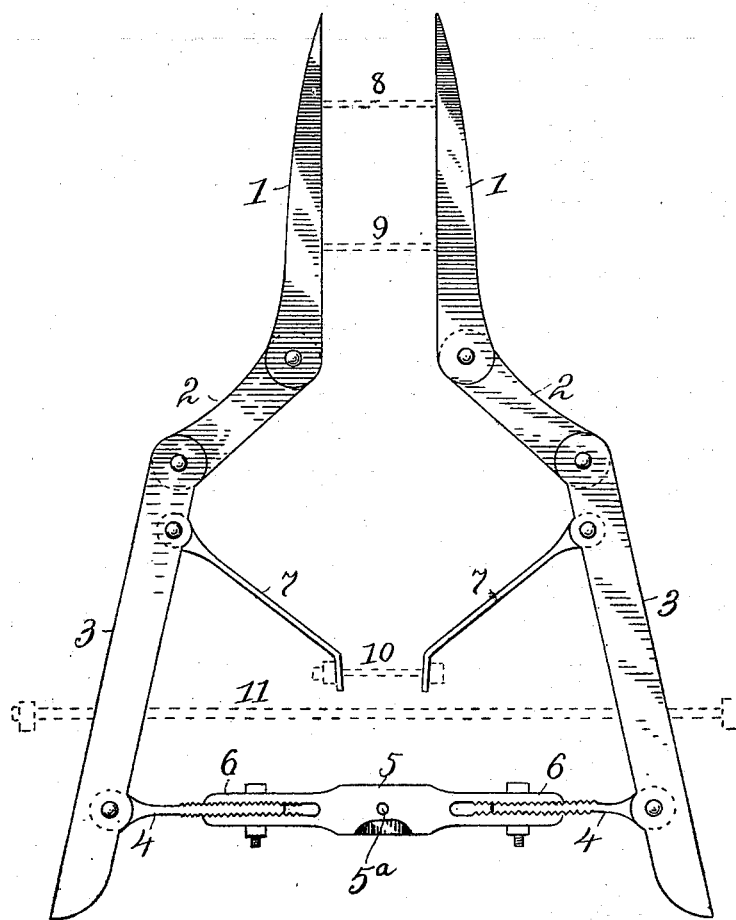
Patented Apr. 24, 1900.

I. C. WALLS.

ADJUSTABLE TONGUE HOUNDS FOR WAGONS.

(Application filed Feb. 23, 1900.)

(No Model.)



Witnesses

Nora Graham,

Ina Graham.

Inventor,
Ira C. Walls,
by L. P. Graham
his attorney

UNITED STATES PATENT OFFICE.

IRA C. WALLS, OF BEMENT, ILLINOIS, ASSIGNOR OF ONE-HALF TO WILLIAM BRUCE, OF SAME PLACE.

ADJUSTABLE TONGUE-HOUNDS FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 648,316, dated April 24, 1900.

Application filed February 23, 1900. Serial No. 6,257. (No model.)

To all whom it may concern:

Be it known that I, IRA C. WALLS, of Bement, in the county of Piatt and State of Illinois, have invented certain new and useful
5 Adjustable Hounds for Wagons, of which the following is a specification.

This invention relates to tongue-hounds as distinguished from the hounds of the front axle, and it is capable of being attached to
10 wagons in which the front-axle hounds are of various widths and inclinations and the tongues of different widths. It is particularly applicable to the large class of wagons in which the front-axle hounds are made of a bar of
15 wood bent to form a semicircle to the rear of the axle and having its ends extended convergingly in front of the axle, and an important feature of its utility resides in its availability for making quick and substantial re-
20 pairs.

The invention is exemplified in the structure hereinafter described, and it is defined in the appended claims.

In the drawing forming part of this speci-
25 fication the hounds are shown in plan in one of their almost-countless positions of adjustment.

A pair of tongue-embracing bars is shown at 1, the hounds-bars are indicated at 3, and
30 links between bars 1 and 3 are shown at 2. An extensible cross-bar is pivotally connected with the rear ends of the hounds-bars 3, and it is preferably composed of the central member 5, which is attachable to the rear end of
35 the tongue, and members 4, pivoted in the hounds-bars and adjustably connected with the central member 5. The central member of the cross-bar is preferably slotted in its ends to receive the end members and inter-
40 nally ribbed or corrugated, and the end members are correspondingly corrugated or ribbed. The different members are slotted to receive binding-bolts to hold the extensible cross-bar in various degrees of extension. A pair of
45 brace-bars 7 is pivotally connected one with each hounds-bar, near the front end thereof, and they extend convergingly rearward from their pivots and connect with the tongue at their rear ends.

50 In adjusting the hounds to conform to the

hounds-bar of the front axle the cross-bar is shortened or lengthened to conform to the space between the axle-hounds near the axle, the bars 3 are swung on their rear pivots to the proper inclination, the links 2 are swung
55 on their rear pivots to bring the tongue-embracing bars 1 in contact with the tongue, and the bars 1 are swung on their pivots into alinement with the tongue. Then the brace-bars 7 are swung into position to properly em-
60 brace the tongue and the parts are secured to the axle-hounds and to the tongue by bolts (suggested in dotted lines at 8, 9, 10, and 11) and by a pin or bolt extended through hole
65 5^a in the extensible cross-bar. The pivots of the different parts of the hounds are preferably rivets, and when the hounds are in place the pivots are riveted tightly.

I advise the use of malleable iron in the construction of the hounds; but the material
70 used, the matter of riveting the pivots, and the specific form of cross-bar used are within the skill of the mechanic and outside of my invention.

I claim—

1. Adjustable tongue-hounds for wagons, comprising a pair of hounds-bars, a pair of tongue-embracing bars, a pair of stiff links
75 pivotally connecting the tongue-embracing bars with the front ends of the hounds-bars 80 and an extensible cross-bar pivotally connected with the rear ends of the hounds-bars.

2. Adjustable tongue-hounds for wagons, comprising a pair of hounds-bars, a pair of tongue-embracing bars, a pair of stiff links
85 pivotally connecting the tongue-embracing bars with the front ends of the hounds-bars, and a cross-bar composed of a central member and two end members, the end members being adjustable lengthwise of the central
90 member and pivotally connected with the rear ends of the hounds-bars.

3. Adjustable tongue-hounds for wagons comprising a pair of hounds-bars, a pair of tongue-embracing bars, a pair of stiff links
95 pivotally connecting the tongue-embracing bars with the front ends of the hounds-bars, a pair of brace-bars pivotally connected with the hounds-bars near the forward ends there-
of and extended rearward and inward to the 100

tongue and an extensible cross-bar pivotally connected with the rear ends of the hounds-bars.

4. Adjustable tongue-hounds for wagons
5 comprising a pair of hounds-bars, a pair of tongue-embracing bars, a pair of stiff links pivotally connecting the tongue-embracing bars with the front ends of the hounds-bars, a pair of brace-bars pivotally connected with
10 the hounds-bars near the forward ends thereof and extended rearward and inward to the

tongue and a cross-bar composed of a central member and two end members, the end members being adjustable lengthwise of the central member and pivotally connected with the rear ends of the hounds-bars. 15

In testimony whereof I sign my name in the presence of two subscribing witnesses.

I. C. WALLS.

Witnesses:

ROSA VOELCKER,
MILLIE L. SHEETS.