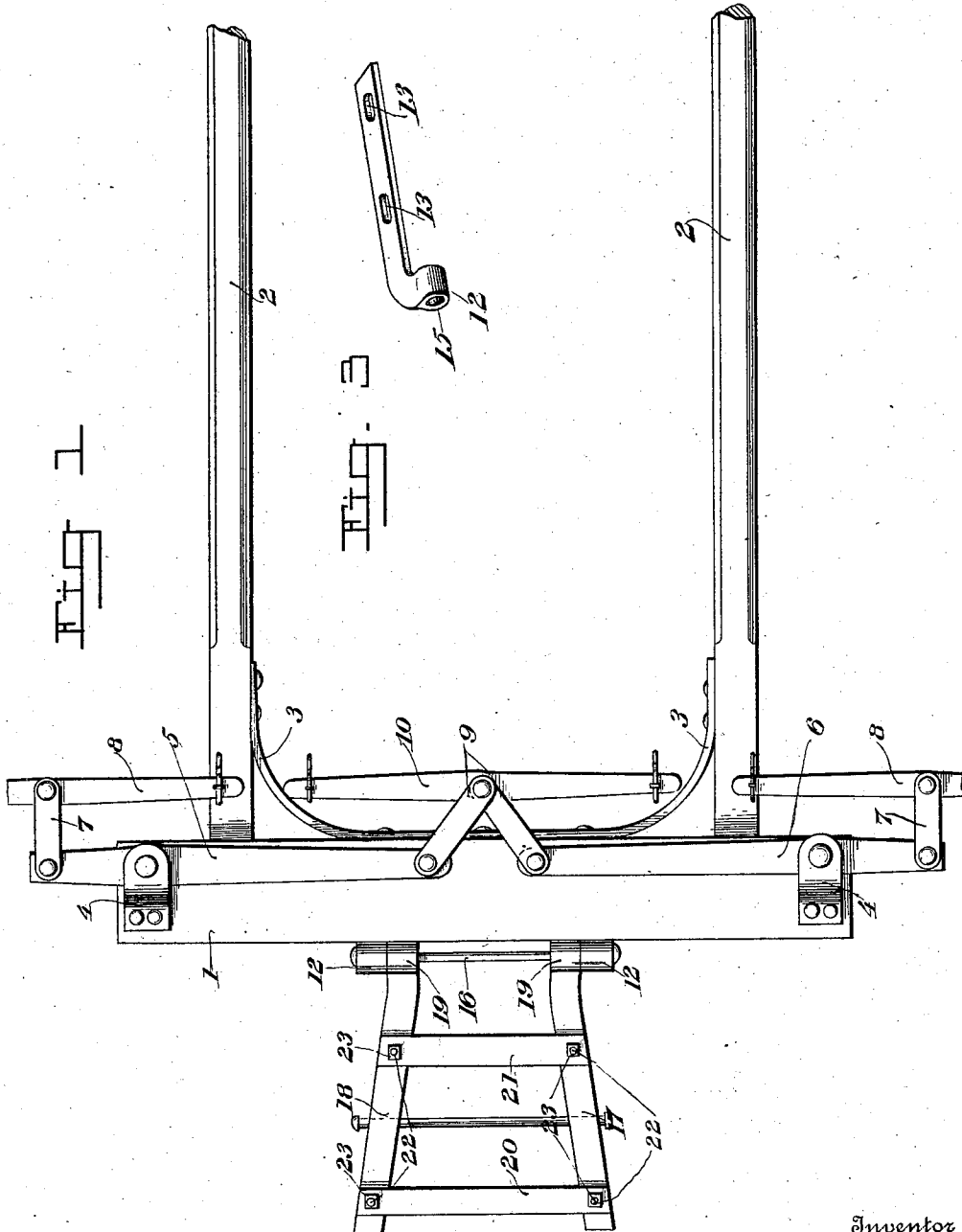


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ADJUSTABLE STUB HOUNDS FOR WAGON TONGUES.
APPLICATION FILED JAN. 25, 1911.

1,028,659.

Patented June 4, 1912.

2 SHEETS-SHEET 1.



Inventor

Harold Ball

Witnesses

Atty. Gardes
W. J. Ford.

By Victor J. Evans

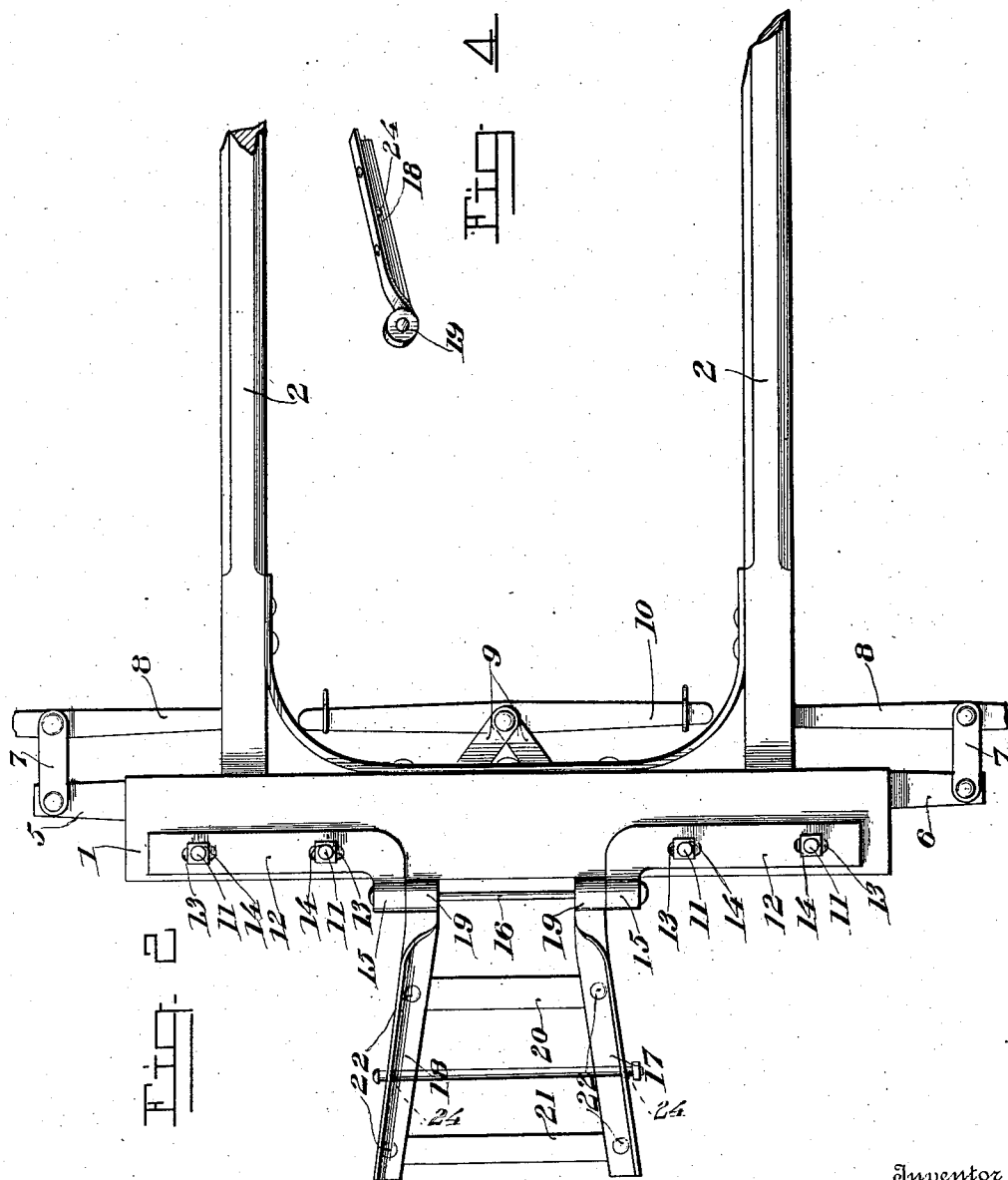
Attorney

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UNITED STATES PATENT OFFICE.

HAROLD BALL, OF BALL, KANSAS.

ADJUSTABLE STUB-HOUNDS FOR WAGON-TONGUES.

1,028,659.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed January 25, 1911. Serial No. 604,642.

To all whom it may concern:

Be it known that I, HAROLD BALL, a citizen of the United States, residing at Ball, in the county of Gove and State of Kansas, have invented new and useful Improvements in Adjustable Stub-Hounds for Wagon-Tongues, of which the following is a specification.

This invention relates to draft equalizers, and resides in the novel construction and arrangement of parts hereinafter fully described and claimed.

The object of the invention is to provide a device of this class which is extremely simple in construction, readily adjustable to engage the various sizes of hounds of vehicles and whereby all the animals attached will be required to perform an equal amount of work.

In the accompanying drawings there has been illustrated a simple and preferred form of the improvement and in which drawings,

Figure 1 is a top plan view of the device constructed in accordance with the present invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a perspective view of one of the adjustable draw bars. Fig. 4 is a similar view of one of the stub hounds.

Like numerals of reference designate corresponding parts throughout the specification.

In the accompanying drawings, the numeral 1 designates what I term the tongue stay bar and 2 the tongues connected with the bar. The tongues are connected with the bar 1 in any desired manner, and are preferably provided with stay braces 3 which connect the inner sides of the tongue with the outer edge of the tongue bar. The opposite ends of the bar 1 are each provided with a clevis 4, and pivotally connected with each of the said clevises are the eveners bars 5 and 6. These bars or hitches are each pivoted away from their centers, and the inner and longer portions of each of the bars terminate approximately central of the tongue bar 1. The outer extremities of each of the bars 5 and 6 are provided with suitable links 7, and connected with the said links are swingletrees 8. The meeting ends of the bars are each provided with links 9, and one of the said links is adapted to overlies the other and to be pivotally connected with the central swingletree 10.

The under face of the bar 1 is provided

with spaced depending threaded elements 11 the same being arranged in pairs a suitable distance from the ends of the said bar.

The numerals 12 indicate the adjusting draw bars. These bars have their body portions provided with elongated slots 13 which are adapted to straddle the depending threaded elements, and the said draw bars are sustained in proper adjusted position upon the bar 1 through the medium of nuts 14 engaging the projecting threaded elements. Each of the draw bars has its inner end bent outwardly and formed with an eye 15, and the alining eyes of the said bars are adapted for the reception of a removable bolt 16.

The numerals 17 and 18 designate the stub hounds. These stub hounds have their main or body portions of a substantially L-shaped formation and the said stub hounds each have one of their ends provided with an eye 19, the latter adapted to be engaged by the bolt 16.

The numerals 20 and 21 designate the adjusting brace members for the short hounds. Each of these members comprises a flattened strip of suitable metal.

The stub hounds are formed with spaced openings and these openings are adapted to receive threaded bolts 22. The bolts 22 are adapted to project through openings provided within the braces 20 and 21 and the extending portion of the said bolts are engaged by suitable nuts 23.

It is to be understood that the eyes provided upon the stub hounds permit of a swinging motion of the said hounds and by this arrangement in connection with the bracing strips 20 and 21 it will be readily noted that the stub hounds may be properly adjusted to fit over the ordinary hounds of different sizes of vehicles. The stub hounds are each provided with suitable openings 24 upon their sides and the said openings are adapted to receive a suitable bolt or the like, whereby upon the tightening of said bolt the stub hounds are rigidly clamped between the ordinary hounds of the vehicle.

From the above description taken in connection with the accompanying drawings, it will be noted that the position of the stub hounds in relation to the bar 1 may be longitudinally adjusted through the medium of the draw bars so that the direct draft of the vehicle may be varied to permit a weaker animal to perform his full

share of the work when hitched with stronger animals. It is to be further understood that while I have illustrated and described the preferred embodiment of the improvement as it now appears to me, changes in the minor details of construction may be made if desired.

Having thus fully described the invention, what I claim as new, is:—

10 In combination with a tongue stay bar, longitudinally adjustable draw-bars secured thereto, said draw-bars having their body portions provided with elongated slots, means passed through the slots and

engageable with the said bar for holding 15 the draw-bars in adjusted position, eyes formed on the inner ends of the draw-bars, stub hounds adapted to be clamped between the hounds of a wagon, eyes formed on the outer ends of the stub hounds, and 20 said eyes being pivotally connected to the eyes on the draw-bars.

In testimony whereof I affix my signature in presence of two witnesses.

HAROLD BALL.

Witnesses:

MARION MATHEWS,
EVAN S. MCKAIN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
