

F. J. DULTMEIER.
 ADJUSTABLE TONGUE HOUND.
 APPLICATION FILED JAN. 3, 1921.

1,404,590.

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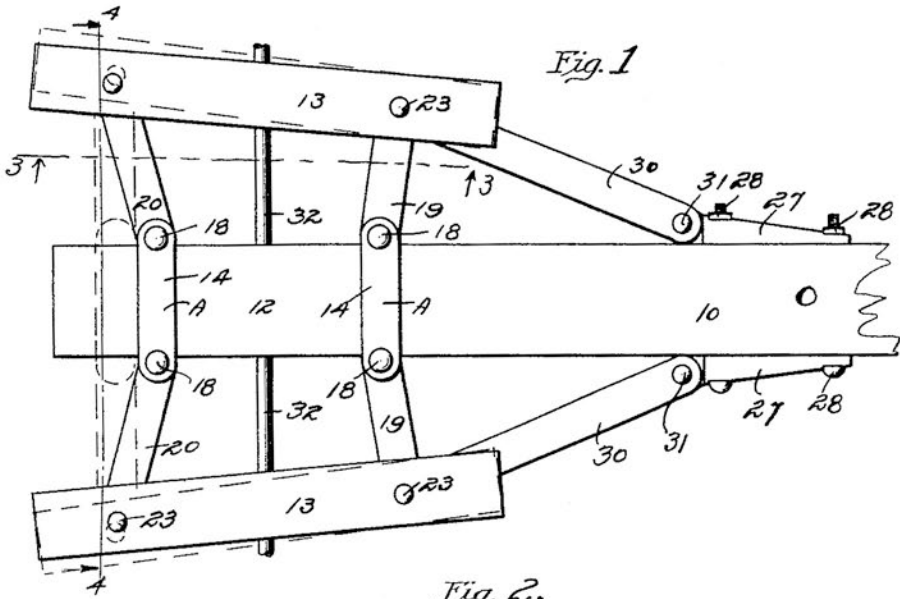


Fig. 1

Fig. 2.

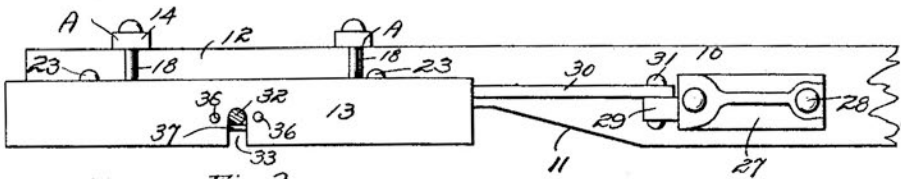


Fig. 3.

Fig. 5.

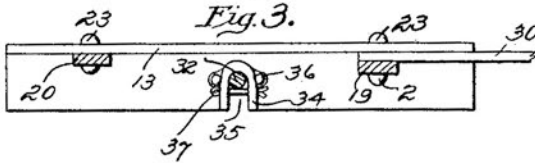


Fig. 4.

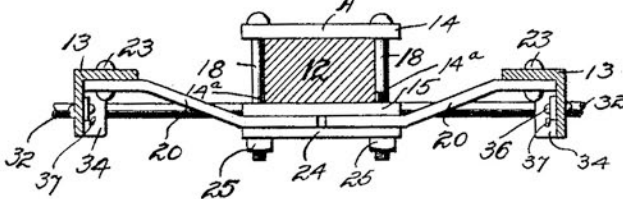
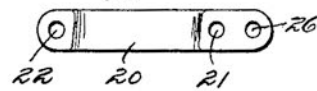


Fig. 6.

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ADJUSTABLE TONGUE HOUND.

1,404,590.

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To all whom it may concern:

Be it known that I, FRANK J. DULTMEIER, a citizen of the United States, and a resident of Omaha, in the county of Douglas and State of Nebraska, have invented a certain new and useful Adjustable Tongue Hound, of which the following is a specification.

The object of my invention is to provide an adjustable tongue hound of simple, durable and inexpensive construction.

A further object is to provide an adjustable tongue hound which is composed of comparatively few parts and so designed that the entire device may be installed in position without the removal of the queen bolt from the permanent hound device.

Another object is to provide in such a device a tongue, the rear end of which is of lesser thickness than the forward end, so that when the entire hound device is installed in operative or working position the under surface of the tongue will rest upon the queen bolt.

Still another object is to provide notches in the sides of the adjustable hound members. The notches being designed to receive the queen bolt, thus making it possible to place the entire adjustable tongue hound over the queen bolt when being installed.

Still another object is to provide means for locking the hound members to the queen bolt for preventing accidental or undesired removal of the hound device from the queen bolt.

With these and other objects in view, my invention consists in the construction, arrangement and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

Figure 1 shows a top plan view of an adjustable hound embodying my invention, installed on a tongue, one of the positions of the hound members being shown in dotted lines.

Figure 2 is a side elevation of the same.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a sectional view taken on the line 4—4 of Figure 1.

Figure 5 is a plan elevation of one of the rear links; and

Figure 6 is a view of the underside of one of the clamping members.

In the accompanying drawings I have used the reference numeral 10 to indicate generally a wagon tongue or the like, the forward end of which is of ordinary construction as now generally used.

Near the rear end of the tongue 10 and on the underside thereof is provided a beveled portion 11, which makes the rear end of the tongue at 12 of lesser thickness than the remainder of the tongue substantially as illustrated in Figure 2 of the drawings.

Adjustable hound members 13 are spaced on the opposite sides of the thicker portions of the tongue 10. The hound members are preferably made of angle iron steel.

In order to connect the hound members 13 to the tongue I have provided clamping devices A, which are composed of the upper and lower plates 14 and 15.

The plates 15 have their upper surfaces corrugated as at 16, and are also provided with lugs 14^a which engage the sides of the tongue so that when they are clamped to the tongue they will grip and prevent longitudinal movement.

Each of the plates 14 and 15 are provided with openings 17 near their ends through which is extended bolts 18. Pairs of links 19 and 20 connect the clamping devices to the forward and rear ends of the hound members 13.

The links 19 and 20 are provided with openings 21 in which is received the lower end of the bolts 18. The opposite ends of the links 19 and 20 are provided with openings 22. The openings 22 are designed to register with openings in the hound members 13 so that a rivet 23 may be extended through the hound members and the links 19 and 20 for holding them together. The rivet permitting pivotal movement of the parts relative to each other.

Each of the links 19 and 20 are provided with an inclined portion between their ends

substantially as is shown in Figure 4, so that the hound members 13 may be placed slightly above the lower surface of the tongue 10.

5 When the links 19 and 20 are installed on the bolts 18 then a plate 24 of substantially the same outline as the plates 14 and 15 are provided with openings, is placed on the bolts 18.

10 Nuts 25 are then screwed on to the bolt for holding the links 19 and 20 between the plates 15 and 24, and for locking the clamping devices against movement on the portion 12 of the tongue 10.

15 The plate 24 when in position prevents any pivotal or swinging movement of the links 20. The links are firmly held against any movement.

It will be understood that the placing of the plate 24 below the plate 15 so as to receive the inner ends of the links 20 therebetween, that I have avoided any possible bending of the bolts 18 which might otherwise be caused if the links 20 were merely bolted to the bolts 18 and not received between the plate 24 and the plate 15, then any downward pressure on the outer ends of the links 20 would cause the entire lower end of the bolts 18 to be bent.

30 From the construction of my parts, just described, it will be seen that I have avoided any such possibility.

The advantage of this structure can readily be seen in so much as I am able to use comparatively light material getting the same amount of strength as would be had if heavier material were used, and omitting the plate 24.

40 The links 20 are provided with an extra opening 26 near their ends which may receive the ends of the bolts 18 when it is desired to have the rear end of the hound members extended outwardly from the tongue, at a comparatively great distance.

45 The bolts 18 may either be placed in the openings 21 or 26 of the links 20.

Blocks 27 are spaced on the opposite sides of the tongue 10 and are fixed thereto by means of the bolts 28. Each of the blocks 50 27 are provided with an ear 29 near its rear end. The ear 29 is provided with an opening so that links 30 may have their forward ends pivoted by means of the rivets 31 and their rear ends to the hound members 13 by means of the rivets 22 which also serves to hold the links 19 to the hound members.

60 From the construction of the parts just described it will be seen that by sliding the clamping devices A longitudinally on the portion 12 of the tongue 10 that the hound members will be moved outwardly or inwardly as is desired, so that the hound members may be made to fit permanent wagon hounds of various sizes.

A queen bolt 32 is provided which is extended into the permanent hound member of the wagon or the like. The sides of the adjustable hound members 13 are each provided with a notch 33 the purpose of which will be hereafter more fully set forth. 70

A bearing member block 34 having a notch 35 therein is riveted to the hound members 13 by means of the rivets 36. The notches 33 and 35 register with each other and are designed to receive the queen bolt 75 32.

The upper edge of the notches 33 and 35 are in the same horizontal plane as the lower surface of the portion 12 of the tongue 10, so that when the queen bolt is placed in the 80 notches 33 and 35 then the tongue 10 will have its rear end rest on the queen bolt 32, as illustrated in Figure 4 of the drawings.

From the construction of the parts just described it will be seen that it is possible 85 to install my device without the necessity of removing the queen bolt or the disassembling of any parts of the adjustable tongue hound.

In order to lock the hound members 90 against accidental removal of the queen bolt I place cotter pins or the like 37 through the sides of the bearing block 34 directly below the queen bolt 32. When the cotter pins 37 are in position the tongue hound 95 can not be removed accidentally from the queen bolt 32.

The advantages of this construction can readily be seen since it makes it possible to install or remove the tongue hound from 100 the queen bolt without disassembling any of the parts of the hound or removal of the queen bolts.

The making of the rear end of the portion 12 of lesser thickness than the rest of 105 the tongue makes it possible to do away with openings or the like which must be used in tongues so that queen bolts may be extended through.

It will also be understood that it is desirable 110 to have the queen bolt come about the center between the upper and lower surfaces of the tongue. This is usually accomplished by the use of a slot or hole in the tongue, but with my device this is eliminated; yet the rear end of the tongue has 115 the sufficient strength to hold the clamping devices A.

By my construction the tongue hound may be installed or removed from operative 120 position in a very few minutes, while with the ordinary device it requires a considerable length of time.

The making of the rear end of the tongue of lesser thickness than the main portion of 125 the tongue does not in any way limit the pulling strength of the tongue as the pull from the tongue is transmitted to the hound

members at the point where the blocks 27 are fixed to the tongue. At this point the tongue has its full strength and thus my construction does not in any way weaken 5 the device.

Some changes may be made in the arrangement and construction of the various parts of my device without departing from the essential features and purposes of my 10 invention, and it is my intention to cover by my claims, any modified forms of structure or use of mechanical equivalents, which may be reasonably included within their scope.

15 I claim as my invention:

1. In a device of the class described, the combination of a tongue having its rear end of lesser thickness than its forward end, a pair of adjustable hound members spaced 20 from said tongue on opposite sides, clamping devices slidably mounted on said tongue, links for connecting said clamping devices with said hound members, each of said hound members being provided with a notch 25 in its side, the upper edge of said notch being in the same horizontal plane as the under surface of said tongue, whereby the device may be placed over the queen bolt without disassembling any of the parts.

2. In a device of the class described, the combination of a tongue having its rear end of lesser thickness than its forward end, a pair of adjustable hound members spaced 30 from said tongue on opposite sides, clamping devices slidably mounted on said tongue, links for connecting said clamping devices with said hound members, each of said hound members being provided with a notch 35 in its side, a block fixed to hound members and provided with a notch which registers with said first notch, the parts being so arranged that the entire device may be placed 40 over a queen bolt without disassembling any of the parts, the queen bolt being received in

the notches for thereby holding the device to 45 the queen bolt.

3. In a device of the class described, a tongue having its rear end of lesser thickness than its front end, a queen bolt, hound 50 members spaced on the opposite sides of said tongue, means for fastening said hound members to said tongue, said means including clamping devices fixed to the tongue and connected to said hound members by 55 links, said hound members being provided with a notch in their sides, the upper edge of said notch being in the same horizontal plane as the under surface of said tongue, whereby the queen bolt may be received in 60 said notches and have the tongue rest upon it, and means for locking said queen bolt in said notch for holding it against accidental removal.

4. In a device of the class described, a tongue having its rear end of lesser thickness 65 than its front end, a queen bolt, hound members spaced on the opposite sides of said tongue, means for fastening said hound members to said tongue, said means including clamping devices fixed to the tongue 70 and connected to said hound members by links, blocks fixed to said tongue forwardly of said hound members, links pivoted to the forward ends of said hound members 75 and to the blocks whereby said clamping devices may be slid longitudinally on said tongue for moving said hound members to various positions, said hound members being provided with a notch in their sides, the upper edge of said notch being in the 80 same horizontal plane as the under surface of said tongue, whereby the queen bolt may be received in said notches and have the tongue rest upon it and means for locking 85 said queen bolt in said notches for holding it against accidental removal.

Des Moines, Iowa, December 6, 1920.

FRANK J. DULTMEIER.