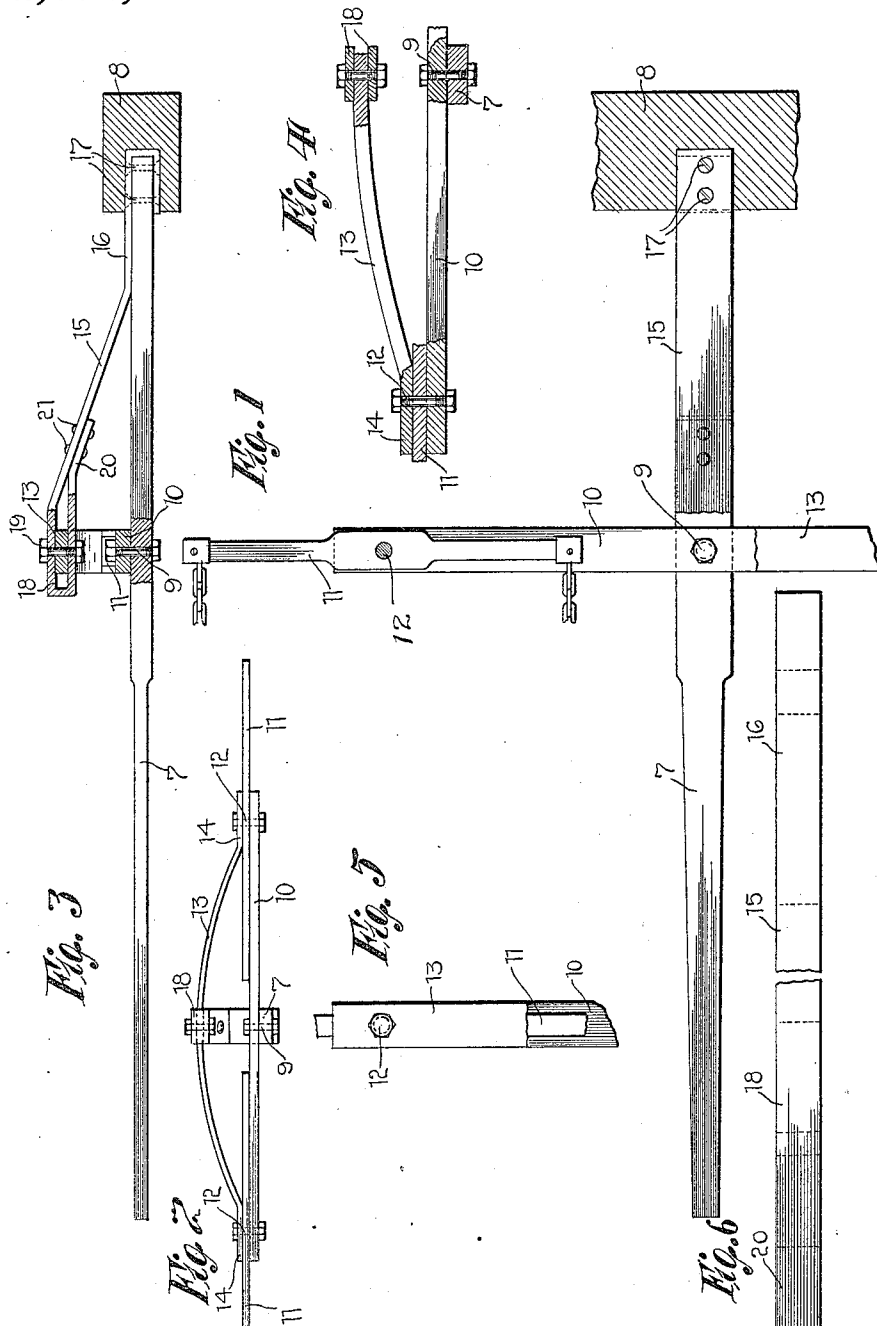


J. B. PYLES.
DRAFT EQUALIZER.
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1,042,269.

Patented Oct. 22, 1912.



WITNESSES
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DRAFT-EQUALIZER.

1,042,269.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES B. PYLES, a citizen of the United States, residing at Moore, in the county of Fergus and State of Montana, have invented certain new and useful Improvements in Draft-Equalizers, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to draft equalizers and has for one of its objects the provision of a device of this character in which the strain that is commonly apparent in all equalizers is greatly minimized.

15 Another object is to provide an equalizer which is simple in construction, durable, and easily manufactured.

In carrying out the objects of this invention generally stated above, it will be understood, of course, that the essential features thereof are necessarily susceptible of changes in details and structural arrangements one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

25 Figure 1 is a fragmentary top plan view constructed in accordance with this invention. Fig. 2 is a view in front elevation thereof. Fig. 3 is a fragmentary longitudinal sectional view. Fig. 4 is a fragmentary sectional view of Fig. 2. Fig. 5 is a fragmentary top plan view of one of the single trees, showing the truss brace partly broken away. Fig. 6 is a view in blank of the hammer strap, the dotted lines showing where the same is bent as in Fig. 3.

Referring to the drawings by numerals it will be seen that the invention consists of a tongue 7 which is secured in the bolster 8 in any preferred manner. Pivotally mounted upon the tongue 7 by means of a bolt 9, is a double tree 10. Swingle trees 11 are pivotally connected to the double tree adjacent its ends, by means of bolts 12. An arched transverse brace 13, preferably made of resilient metal, has its ends 14 terminating in flat portions which are adapted to abut against the swingle trees and are secured thereto by the bolts 12.

50 A hammer strap 15 made of a single

length of resilient metal is pivotally secured to the arched brace 13 at a point intermediate its ends and secured to the ends of the tongue 7. The body portion of the hammer strap is inclined and terminates at one end in a flat portion 16 which rests against the upper surface of the tongue 7. The end of the portion 16 is bent to overlap and surround the end of said tongue and is secured thereto by means of the rivets 17. The other end of the body portion of the hammer strap also terminates in a portion 18 which is bent to surround and engage the arched brace 13 and is pivotally secured thereto by the pivot bolt 19. The end 20 of the portion 18 is bent to abut against the under side of the body portion of the strap 15 and is fastened thereto by the rivets 21.

It will be seen from the foregoing description that the invention provides a strong and efficient bracing means to overcome the strain that is applied upon the swingle trees and the double tree when the same are in use.

It will also be obvious that the invention is one that can be manufactured and at a minimum cost and which can also be readily applied to any form of draft appliance commonly used.

Having thus described the invention, what is claimed is:—

A draft equalizer comprising a vehicle tongue whose rear end is secured in a bolster, a double tree, a bolt pivotally connecting said double tree to said tongue, swingle trees pivotally connected to said double tree, a transverse, resilient, arched brace, having its ends bolted to said swingle trees, a hammer strap, a bolt pivotally securing said brace to said strap, said strap having its rear end turned over and around and secured to the rear end of the vehicle tongue within said bolster, its front end being bent around and pivotally secured to said arched brace.

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

JAMES BENJAMIN PYLES.

Witnesses:

L. V. JACKSON,

A. D. SCOTT.