

(No Model.)

W. A. J. GILES & G. B. N. DOW.
WHIFFLETREE.

No. 550,877.

Patented Dec. 3, 1895.

Fig. 1.

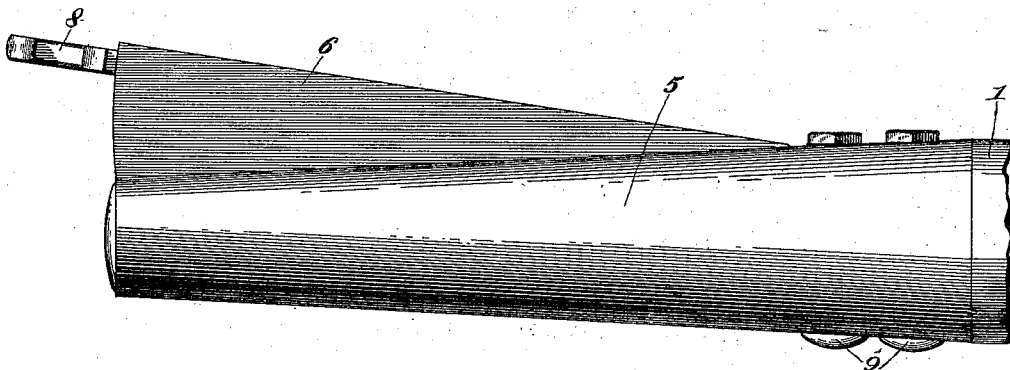


Fig. 2.

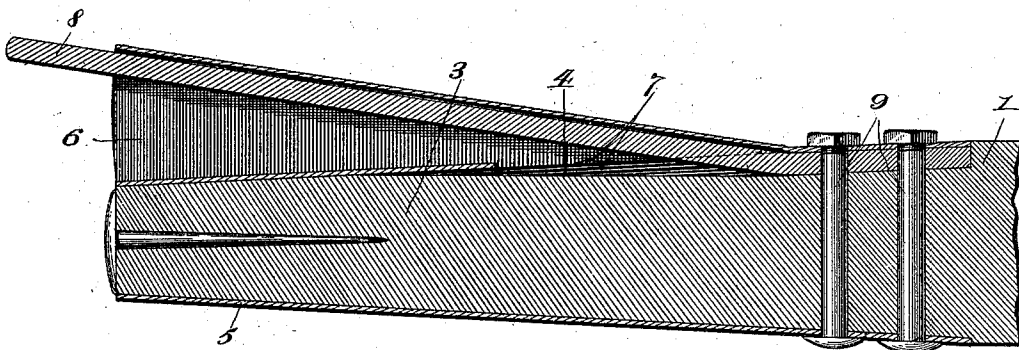
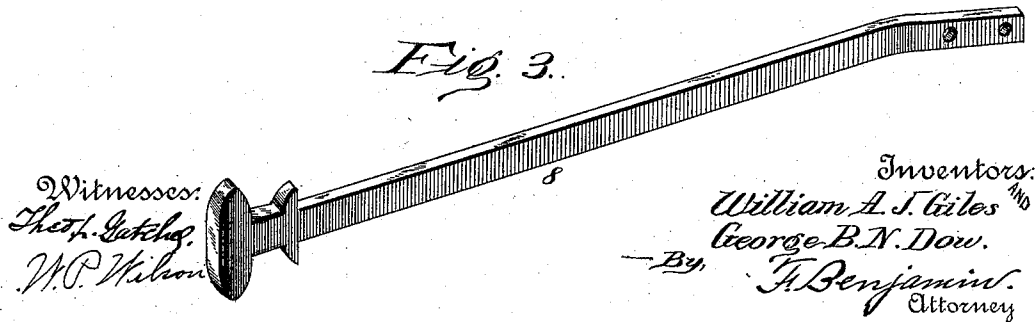


Fig. 3.



Witnesses:
Thos. Gatchup
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UNITED STATES PATENT OFFICE.

WILLIAM A. J. GILES, OF CONCORD, AND GEORGE B. N. DOW, OF MANCHESTER, NEW HAMPSHIRE.

WHIFFLETREE.

SPECIFICATION forming part of Letters Patent No. 550,877, dated December 3, 1895.

Application filed June 27, 1895. Serial No. 554,178. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM A. J. GILES, residing at Concord, in the county of Merrimac, and GEORGE B. N. DOW, residing at Manchester, in the county of Hillsborough, State of New Hampshire, citizens of the United States, have invented certain new and useful Improvements in Whiffletrees; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in whiffletrees in which the traces are secured to springs secured to the outer ends of the tree for the purpose of relieving the traces of any jar.

The invention consists in the means for securing the springs in place and a casing for protecting the springs and for guiding the same in their movements.

In the drawings forming a part of this specification, Figure 1 represents a plan view of one end of our whiffletree, the construction of both ends being the same. Fig. 2 is a horizontal section through the same. Fig. 3 is a detail showing the spring.

Like reference-numerals indicate like parts in the views.

The whiffletree 1 is secured to the buggy by means of a bolt in the usual manner. Its outer ends 3 are tapered and flattened upon one side, as shown at 4. Surrounding each of the tapering ends 3 of the whiffletree is a cone-shaped sleeve 5, which fits tightly thereon, leaving a space at its inner end between it and the flattened portion 4 of the whiffletree. Formed integrally with the sleeve 5 or secured thereto in any suitable manner is an angular-shaped casing 6, which has an opening 7 at its inner end leading to the sleeve

5. Within the casing 6, projecting through the opening 7 and lying in the space left between the flattened portion 4 of the whiffletree and the inside of said sleeve 5, is a bar 8, of spring metal, which is bent backwardly from the direction in which draft is applied and rests normally in a position along the rear side of the casing 6. This spring is secured in place by bolts 9, projecting through openings in the inner end of said spring and through the casing and the whiffletree proper. The traces are adapted to be secured to the outer or free ends of the springs 8.

By the foregoing construction it will be seen that the outer ends of the whiffletree are protected by the cone-shaped sleeves 5 thereon, the inner ends of the springs 8 are held in place by said sleeves and by the bolts 9, and the said springs are further protected and guided by the angular-shaped casing 6.

Having thus described the invention, what is claimed as new is—

The combination with a whiffletree having tapered outer ends, of a cone-shaped sleeve fitting each end of said whiffletree, an angular casing integral with or secured to said sleeve having an opening thereinto at its inner end and a bent bar of spring metal fitting said casing projecting through said opening and secured to the whiffletree by bolts passing through said sleeve, bar and tree, substantially as and for the purpose described.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

WILLIAM A. J. GILES.
GEORGE B. N. DOW.

Witnesses:

DANIEL GILES,
MABEL GILES.