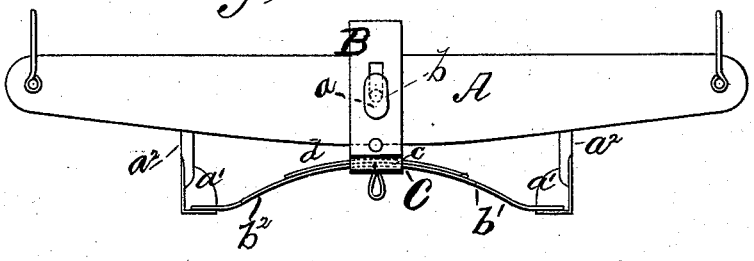
J. HILL.

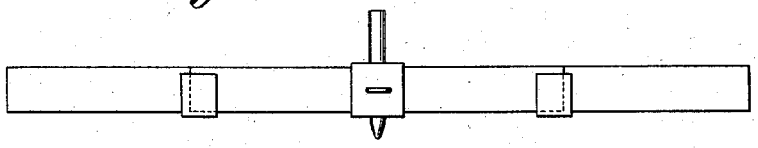
Spring-Whiffletree.

No. 217,375. Patented July 8, 1879.

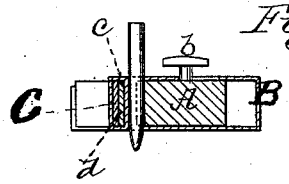
Fig, 1.



Fig, 2.



Fig, 3.



WITNESSES

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JOSEPH HILL, OF WILLIAMSPORT, PENNSYLVANIA.

IMPROVEMENT IN SPRING-WHIFFLETREES.

Specification forming part of Letters Patent No. **217,375**, dated July 8, 1879; application filed March 20, 1879.

To all whom it may concern:

Be it known that I, JOSEPH HILL, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented a new and valuable Improvement in Spring-Whiffletrees; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view of my improved whiffletree. Fig. 2 is a rear view thereof, and Fig. 3 is a cross-section of the same.

This invention has relation to improvements in spring-whiffletrees; and the nature of the invention consists in the construction and novel arrangement of parts, as hereinafter shown and described.

In the accompanying drawings, the letter A designates the body of a whiffletree, to which my invention is shown applied. B indicates the draft-loop, a broad central band, which embraces the whiffletree. It is slotted longitudinally at its upper portion, as shown at *a*, to receive a headed guide-pin, *b*, which passes into the top portion of the whiffletree and keeps the band or loop in place while allowing the necessary endwise motion. In the end of this loop or band B is formed a partition, *c*, for a purpose hereinafter explained.

a^1 designates the box-bearings, having bolts a^2, which pass through holes in the side of the whiffletree and are rigidly secured thereto.

The partition *c* aforesaid is designed to receive the inner ends of a curved spring, C, made in two sections, b^1 b^2, while their outer or free ends work loosely in the box-bearings a^1. A small spring, *d*, also engages the partition *c*, and spans the central portions of the spring C and keeps the sections b^1 b^2 in place, whereby the free ends of said spring C are forced to work in the box-bearings when pressure is brought to bear upon the small spring *d*.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

A whiffletree having the slotted draft-loop B, provided with end partition *c*, the headed guide-pin *b* engaging the slotted portion of said loop, the rigid bolt box-bearings a^1 a^2, secured to the said whiffletree, the sectional spring C, having its inner ends secured in said partition, while its outer or free ends engage and work loosely in the box-bearings a^1, by the pressure of the spring *d*, spanning the inner ends of the said sectional spring, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH HILL.

Witnesses:
JOHN HARTMAN,
M. GRIER THORNTON.