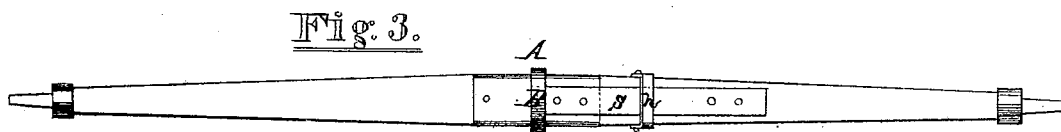
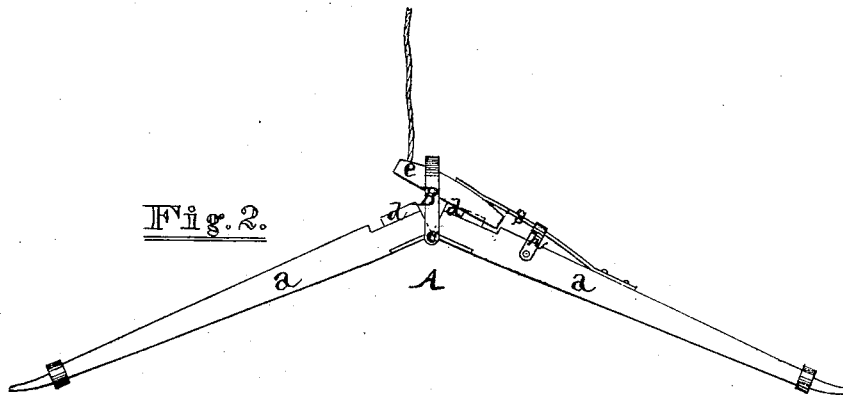
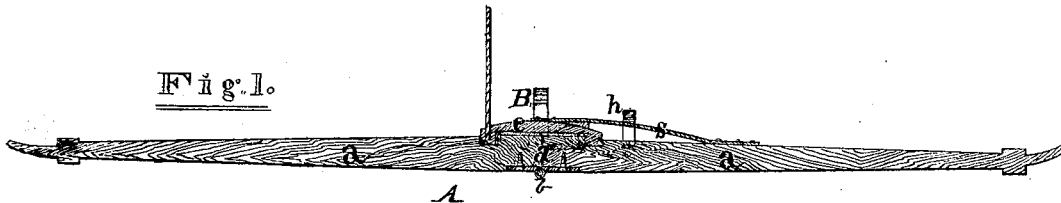


WILLIAM S. BROWN.  
Improvement in Whiffletrees.

No. 114,913.

Patented May 16, 1871.



Witnesses.

Chas. Henry  
Esqr. P. Mas.

Inventor.

W. S. Brown  
Chipman & Son  
Atty.

# United States Patent Office.

WILLIAM S. BROWN, OF THORNTOWN, INDIANA.

Letters Patent No. 114,913, dated May 16, 1871.

## IMPROVEMENT IN WHIFFLETREES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern :*

Be it known that I, WILLIAM S. BROWN, of Thorn-town, in the county of Boone and State of Indiana, have invented a new and valuable Improvement in "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 drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a longitudinal section view of my invention.

Figure 2 is a plan view of the same.

Figure 3 is a rear view of the same.

My invention relates to an improvement in jointed safety-whiffletrees; and

It consists in the general construction and the novel arrangement of the parts of the hinge-joint, whereby strength is secured with simplicity of construction and certainty of action.

The letter A of the drawing represents the whiffletree made in two parts, *a a*, which abut in the center at *a'*, and are connected in front by the hinge *b*.

B represents the connecting-band by which the whiffletree is secured to the cross-bar in rear of it. This band is attached to the ends of the pivot-bolt *c* of the hinge.

*d d* represent projections extending out from the rear face of the whiffletree, one on each side of the partition, and arranged to abut against each other.

*e* represents a cap having a recess formed in it for the reception of the projections *d d*, which are designed to fit the recess neatly and in such a manner that there shall be no longitudinal play.

The outer ends of the projections *d d* should be nearly or quite perpendicular to the direction of the whiffletree, and the end walls of the recess in the cap *e* should fit closely against them, thus, when in position, clamping the sections of the whiffletree together in rear, and rendering it rigid throughout its length.

The cap *e* is kept in position by the spring *s* attached to one end of the whiffletree.

*h* represents a loop designed to guard the spring and to prevent it from being drawn too far to the rear when the cap *e* is pulled back to release the arms of the whiffletree.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a safety-whiffletree, the arrangement of the sections *a a*, hinge *b*, connecting-band B, projections *d d*, recessed cap *e*, spring *s*, and loop *h*, substantially as and for the purpose specified.

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

WILLIAM S. BROWN.

Witnesses:

GEORGE COULSON,  
W. W. MILLIKAN.