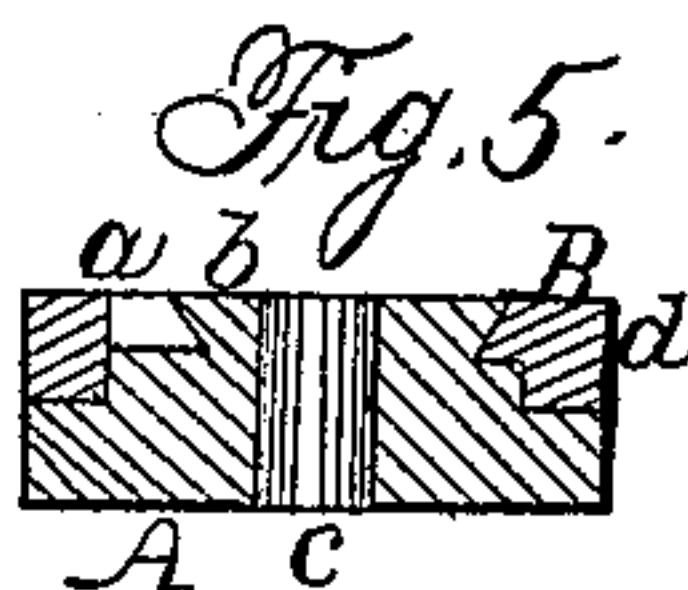
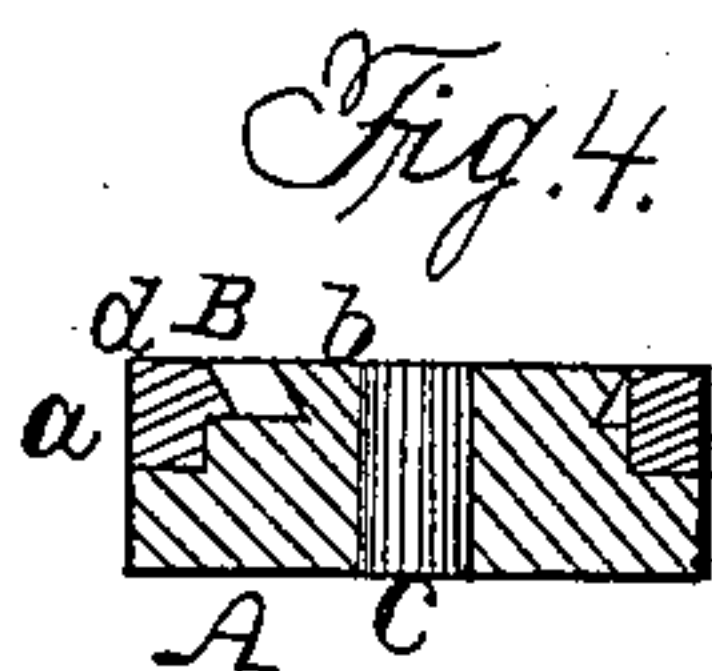
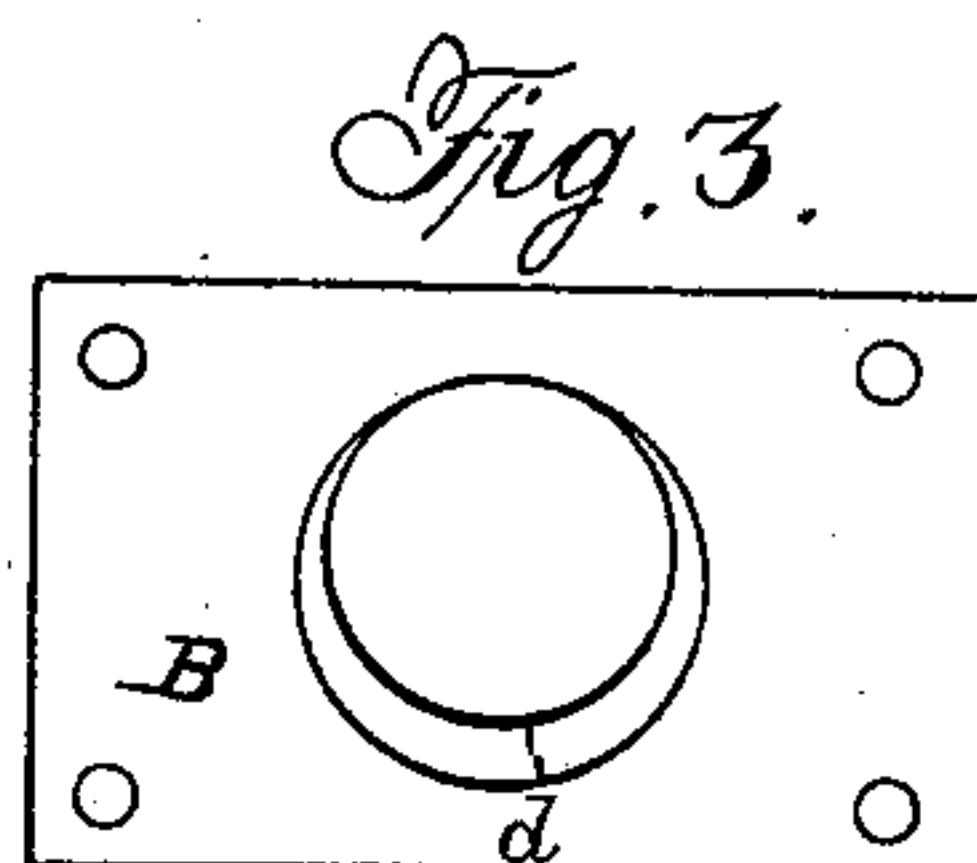
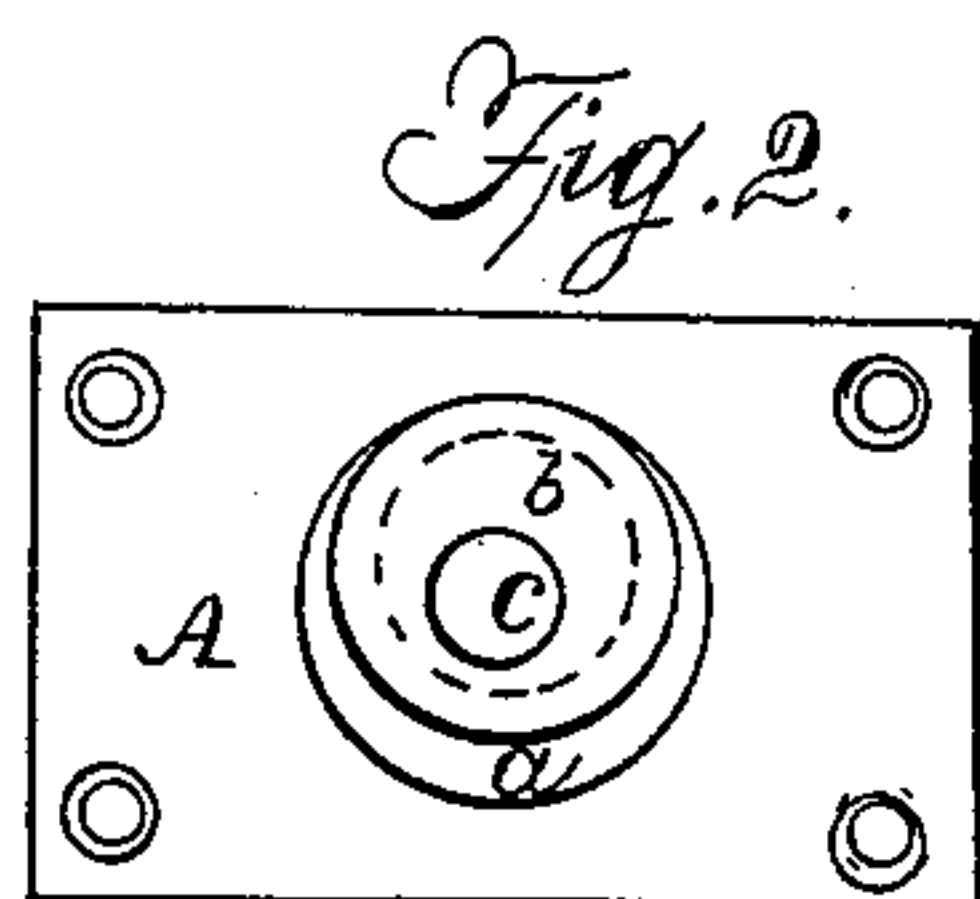
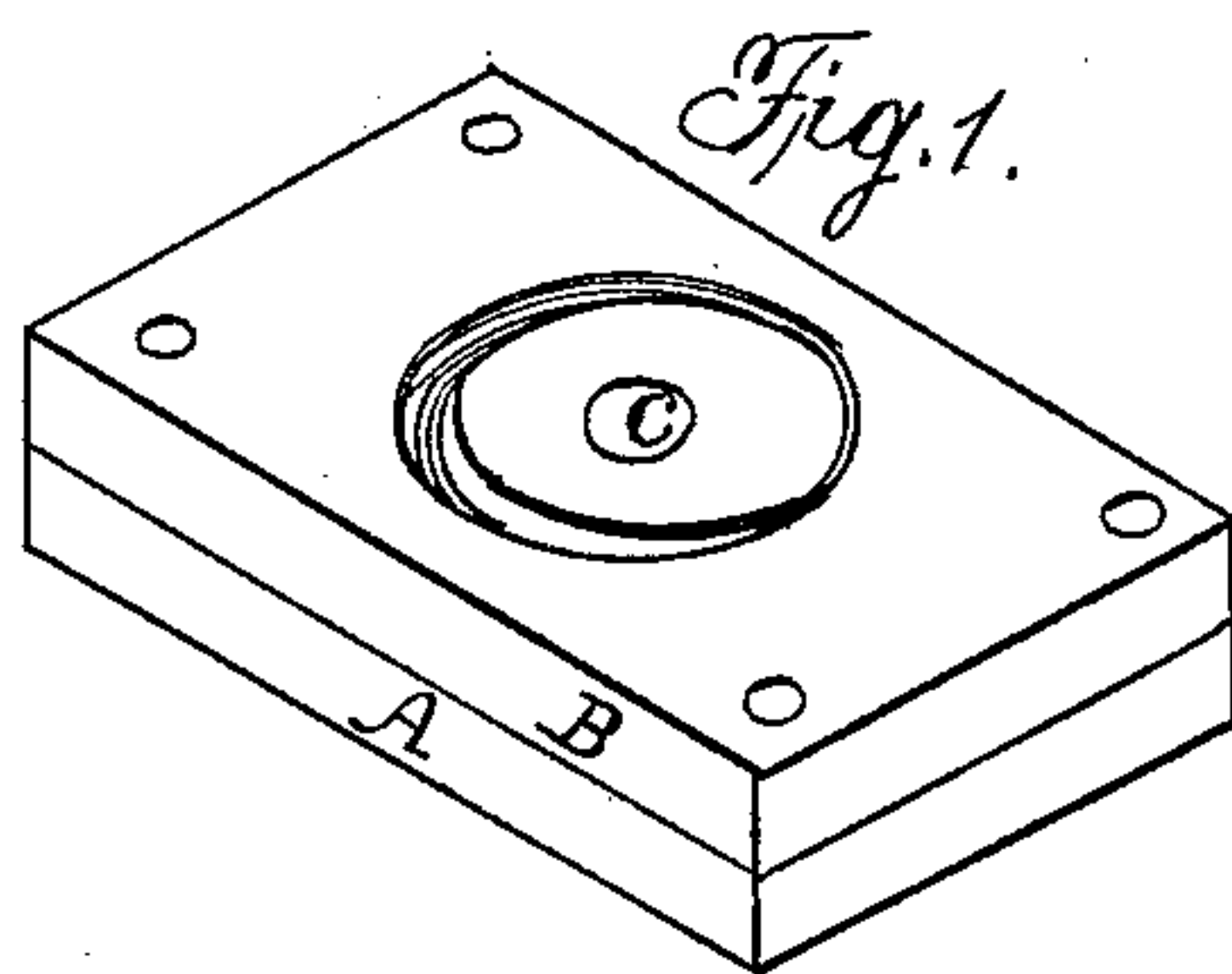


F. B. MORSE.

Whiffletree.

No. 68,570.

Patented Sept 3, 1867.



WITNESSES
John N. Shumway
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F. B. MORSE, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 68,570, dated September 3, 1867.

IMPROVEMENT IN WHIFFLE-TREE IRON.

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, F. B. MORSE, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Whiffle-Tree Irons; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view.

Figure 2, a top view of the lower part.

Figure 3, a top view of the upper part detached; and in

Figures 4 and 5, transverse central sections, illustrating its operation.

This invention is designed for the attachment of whiffle-trees to the cross-bars of carriages, the object being to prevent the accidental removal of the whiffle-tree even should the bolt break; and the invention consists in the peculiar formation of the two plates, whereby they may, in one position, be set together, and when turned from that position are securely locked, to prevent their separating.

In order to the better understanding of my invention, as well as to enable others to construct the same, I will proceed to a description thereof, as illustrated in the accompanying drawings.

A is the lower plate, B the upper. The lower plate A has upon its centre a raised round block, *a*, and eccentric upon the said block another round block, *b*, the block *b* being of larger diameter at the top than at the base, so as to form an annular dove-tail groove around the block *b*, above the block *a*, and eccentric thereto, as seen in figs. 2 and 4, one edge of the upper block coming flush, or nearly so, with the edge of the lower block, as seen in fig. 4. Through the upper plate an opening is formed, corresponding to the lower block *a*, and fitted so as to turn freely thereon, and in the upper portion of the said opening a lip, *d*, projects inward corresponding to the groove on the block *b*, as seen in figs. 3 and 4. The two parts are set together, as seen in fig. 4, then turned half around, so that the lip *d* enters the dove-tail groove, and is thereby securely held until returned to its first position, when it may be readily removed. The plate A is fitted to the cross-bar, and has through its centre a hole, C, for the bolt; the other plate B is fitted to the whiffle-tree, or *vice versa*, then placed together and locked, as before described. By this arrangement it will be seen that although the bolt may be removed, yet the two plates may be held firmly together, and cannot therefore be accidentally removed.

Thus is formed, in a cheap and simple manner, a positively locking whiffle-tree iron.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

The herein-described whiffle-tree iron, as an article of manufacture.

F. B. MORSE.

Witnesses:

JOHN E. EARLE,

A. J. TIBBITS.