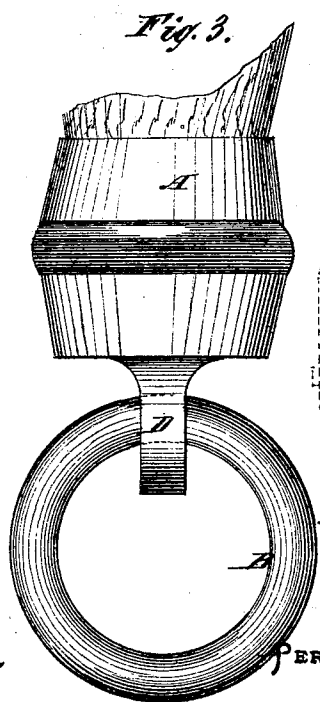
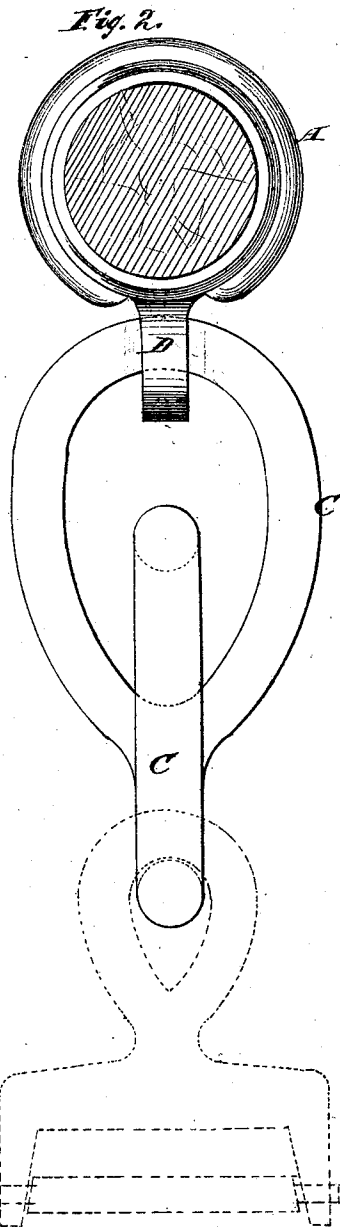
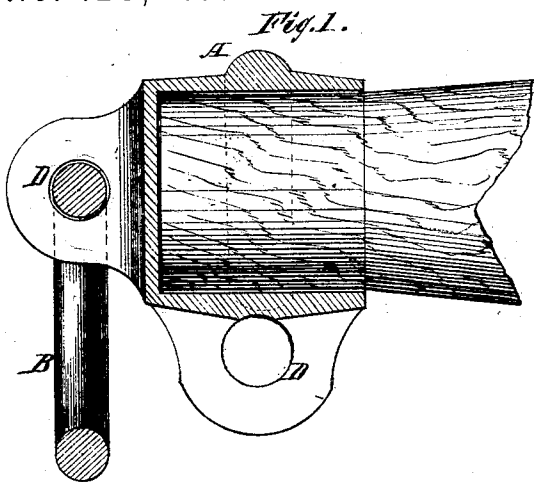


J. WOOD.
Improvement in Manufacture of Iron for Whiffletrees
and Neck-Yokes.

No. 128,347.

Patented June 25, 1872.



Witnesses:
P. C. Dietrich.
N. A. Graham.

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UNITED STATES PATENT OFFICE.

JAMES WOOD, OF LOCKPORT, NEW YORK.

IMPROVEMENT IN THE MANUFACTURE OF IRONS FOR WHIFFLETREES AND NECK-YOKES.

Specification forming part of Letters Patent No. 128,347, dated June 25, 1872.

Specification describing a new and useful Improvement in the Manufacture of Iron for Whiffletrees and Neck-Yokes, invented by JAMES WOOD, of Lockport, in the county of Niagara and State of New York.

This invention relates to the construction of the ferrules or caps and the ring or hooks of neck-yokes and whiffletrees for wagons and other vehicles; and it consists in casting the hooks or rings into the lugs of the caps or ferrules of whiffletrees and neck-yokes, instead of welding them in.

My invention is illustrated by the accompanying sheet of drawing, showing the application which I make of my improvement.

Figure 1 shows a side view of one end of a neck-yoke with the ferrule in section. Fig. 2 is an end view of the same complete. Fig. 3 is a top view of one end of a whiffletree.

Similar letters of reference indicate corresponding parts.

The ferrules or caps of whiffletrees and neck-yokes are usually made of wrought-iron, and are fitted to the ends of the wooden whiffletrees and neck-yokes, as seen in the drawing.

A represents the caps or ferrules of the whiffletrees or neck-yokes. The hooks and rings B and C have been made of wrought-iron, and welded into the lugs D. This involves considerable expense, and is in no wise better

than rings and hooks made of good malleable iron and cast in, according to my invention. In carrying out my invention, I, in the first place, cast the hooks and rings, and when the caps are molded the hook or ring is placed partly in and partly out of the mold, one part of the ring or hook being prepared with clay or other suitable material, so that the melted iron which forms the lug D will not come in contact with the ring or hook, but will run around and inclose a portion of it, and when the melted iron cools the two are attached permanently together, as seen in the drawing. The neck-yoke cap may be cast with the lug upon the side, as seen in Fig. 1, if desired.

I do not confine myself to any particular form of cap, or ring, or hook, so long as the parts are cast together instead of being welded together.

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

As a new and improved article of manufacture, the end-irons for whiffletrees and neck-yokes when cast together, substantially as shown and described.

JAMES WOOD.

Witnesses:

OLIVER STAFFORD,
CARLTON HILTON.