W. FREELAND.
Whiffletree-Hook.

No. 224,673. Patented Feb. 17, 1880.

Fig. 1.

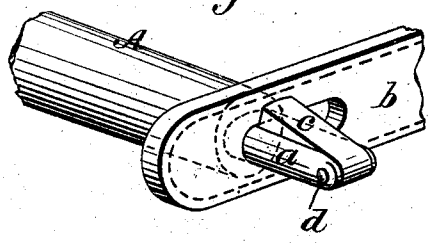
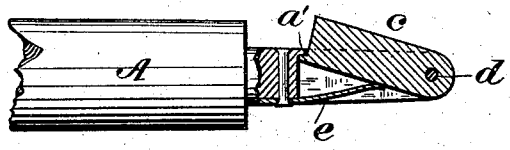


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM FREELAND, OF BROOKLYN, NEW YORK.

WHIFFLETREE-HOOK.

SPECIFICATION forming part of Letters Patent No. 224,673, dated February 17, 1880.

Application filed December 12, 1879.

To all whom it may concern:

Be it known that I, WILLIAM FREELAND, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Trace-Fastenings, of which the following is a specification.

The object of my invention is to furnish a simple, durable, and safe device for securing carriage-traces to the whiffletree, especially adapted to light harness having slotted leather traces; and my invention consists in a slotted pin fitted with a spring blocking-piece, which is normally projected by the spring to retain the trace, and when depressed closes within the pin and flush with its surface, as more particularly set forth with reference to the accompanying drawings, forming part of this specification, wherein—

Figure 1 is a perspective view, showing my fastening device as applied to use. Fig. 2 is a section lengthwise of the pin.

Similar letters of reference indicate corresponding parts.

A is one end of a whiffletree, in which the pin *a*, that receives the trace, is inserted, and *b* is a trace attached upon the pin *a*.

The pin *a* is slotted lengthwise and vertically from its outer end to near the end of the whiffletree, and in this slot the blocking-piece *c* is fitted and held by a cross-pin, *d*, at the outer end. At the under side of pin *a* a plate-spring, *e*, is attached firmly by a screw or rivet, with its free end bearing upon the under side of piece *c*, and tending to throw the moving end of piece *c* upward out of the slot in *a*. At the base of the slot, and upon the end of piece *c*, there are lugs or shoulders *a'*, which, when the block is raised, come into contact and prevent the end of *c* from coming entirely out.

It will be seen that when the block *c* is raised, as shown and described, there is a recess formed between the block and the end of the whiffletree to receive the trace and retain it upon the pin *a*, as shown by Fig. 1.

To remove the trace the piece *c* will first be pressed down by hand into the slot of *a*, and the trace may then be slipped off the pin.

The blocking-piece *c* is of a size to neatly fit the slot in the pin, so that when it is depressed it will be flush with the surface of the pin, so that the pin may enter the trace-slot readily.

This device is simple, cheap, effective, and not liable to get out of order.

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

The combination, with a whiffletree end, A, having the longitudinally-slotted pin *a*, of the blocking-piece *c*, held by a cross-pin, *d*, and the plate-spring *e*, as shown and described.

WILLIAM FREELAND.

Witnesses:
GEO. D. WALKER,
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