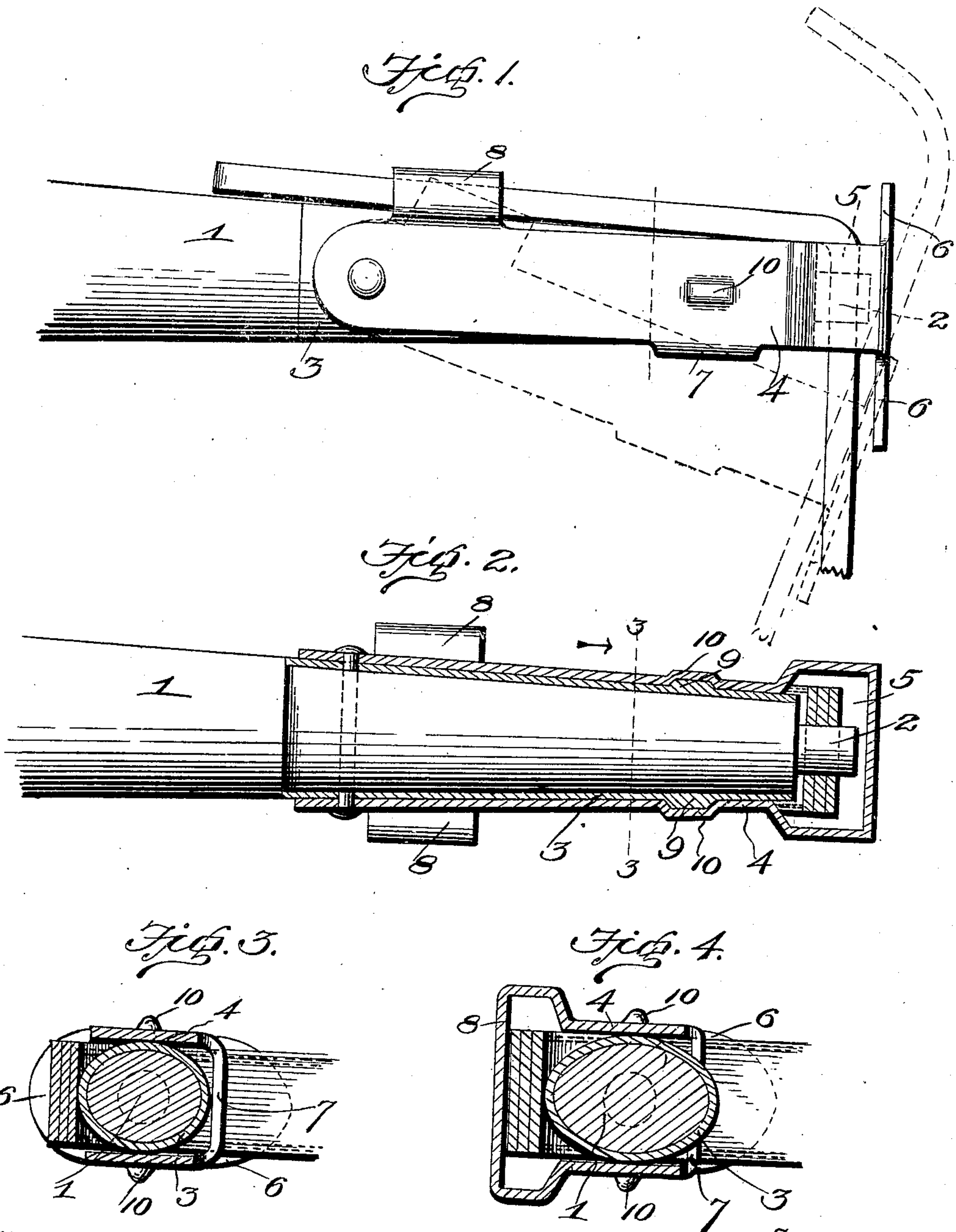


No. 832,070.

PATENTED OCT. 2, 1906.

P. M. LOSSING.
TRACE FASTENING.
APPLICATION FILED FEB. 23, 1906.



Witnesses
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UNITED STATES PATENT OFFICE.

PHILO M. LOSSING, OF KALKASKA, MICHIGAN.

TRACE-FASTENING.

No. 832,070.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed February 23, 1906. Serial No. 302,495.

To all whom it may concern:

Be it known that I, PHILO M. LOSSING, a citizen of the United States, residing at Kalkaska, in the county of Kalkaska and State of Michigan, have invented certain new and useful Improvements in Trace-Fastenings; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in trace-fastenings or whiffletree-hooks.

The object of the invention is to provide a fastening device adapted to be connected to the ends of a whiffletree, by means of which the trace will be prevented from being casually detached or disconnected from the whiffletree.

A further object is to provide a fastening device of this character which will be simple, strong, and durable in construction, efficient in operation, and well adapted to the purpose for which it is designed.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of one end of a whiffletree, showing the ends of a trace connected thereto and the application of my improved fastening device and showing in dotted lines the manner of releasing the trace. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a cross-sectional view on the line 3 3 of Fig. 2, and Fig. 4 is a similar view taken through the inner trace-retaining loop.

Referring more particularly to the drawings, 1 denotes the whiffletree, provided on its ends with trace-engaging projections 2. Said projections may be of any suitable construction, but are preferably formed by reducing the ends of the whiffletree, as shown. On the ends of the whiffletree are preferably arranged ferrules 3.

Pivotally connected to the ends of the whiffletree are trace-fastening devices constructed in the form of bails or loops 4, the arms of which are pivotally connected at their inner ends to the upper and lower sides of the whiffletree, as shown. The outer or looped end of the bail which covers the projection 2 on the whiffletree is enlarged to form a pas-

sage 5 for the ends of the trace to pass through. The looped end of the bail has formed on each side longitudinally-projecting guard-flanges 6, which engage the outer sides of the trace when the same is connected to the whiffletree. On the front side or edges of and near the looped end of the bail is secured a cross-bar or plate 7, which forms a stop to limit the rearward movement of the fastening-bail when the same is in a locked position. Secured to the opposite side or edges of the arms of the fastening-bail near the pivoted ends of the same is a trace-end-receiving loop 8, through which the end of the trace is adapted to be inserted, thereby holding said trace end and preventing the same from interfering with the movement of the whiffletree.

On opposite upper and lower sides of the ferrule 3, near the outer ends of the same, are formed laterally-projecting studs or lugs 9, which when the fastening-bail is swung to a closed position are adapted to spring into recesses 10, formed in the adjacent sides or arms of the bail, thereby holding the latter in a closed position, as will be understood.

By the use of a trace-fastening such as herein shown and described the end of a trace may be quickly and easily connected to the whiffletree and fixed thereto.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined by the appended claim.

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

In a trace-fastening, the combination with the whiffletree having on each end a trace-engaging projection, a fastening bail or loop pivotally mounted on the whiffletree to swing over the end of said projections, a ferrule arranged on the end of the whiffletree, a cross-bar connecting the arms of said fastening-bail on one side, a trace-end-receiving loop secured to the opposite side of said arms, guard-flanges formed on and projecting longitudi-

nally from each side of the end of said bail,
laterally-projecting locking studs or lugs ar-
ranged on each side of said ferrule and adapt-
ed to be engaged by recesses formed in the
5 arms of said fastening-bail when the latter is
swung to a closed position, substantially as
described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

PHILO M. LOSSING.

Witnesses:

B. T. McALVAY,
CHAS. H. DE PUY.