

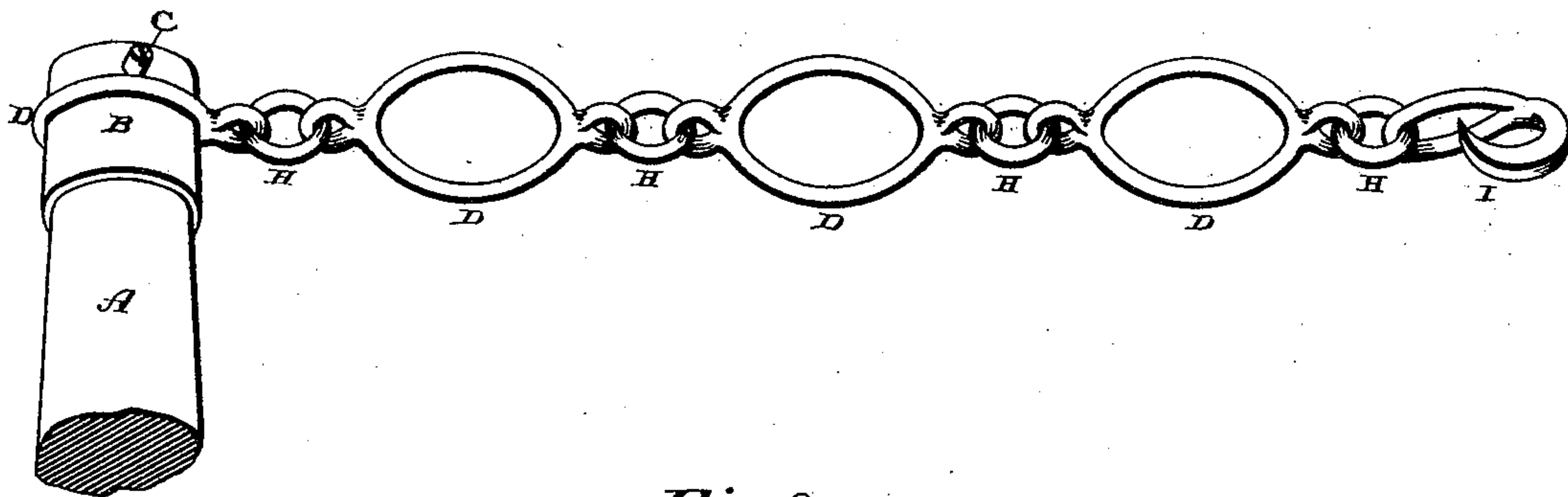
(No Model.)

A. T. FOX.  
WHIFFLETREE HOOK.

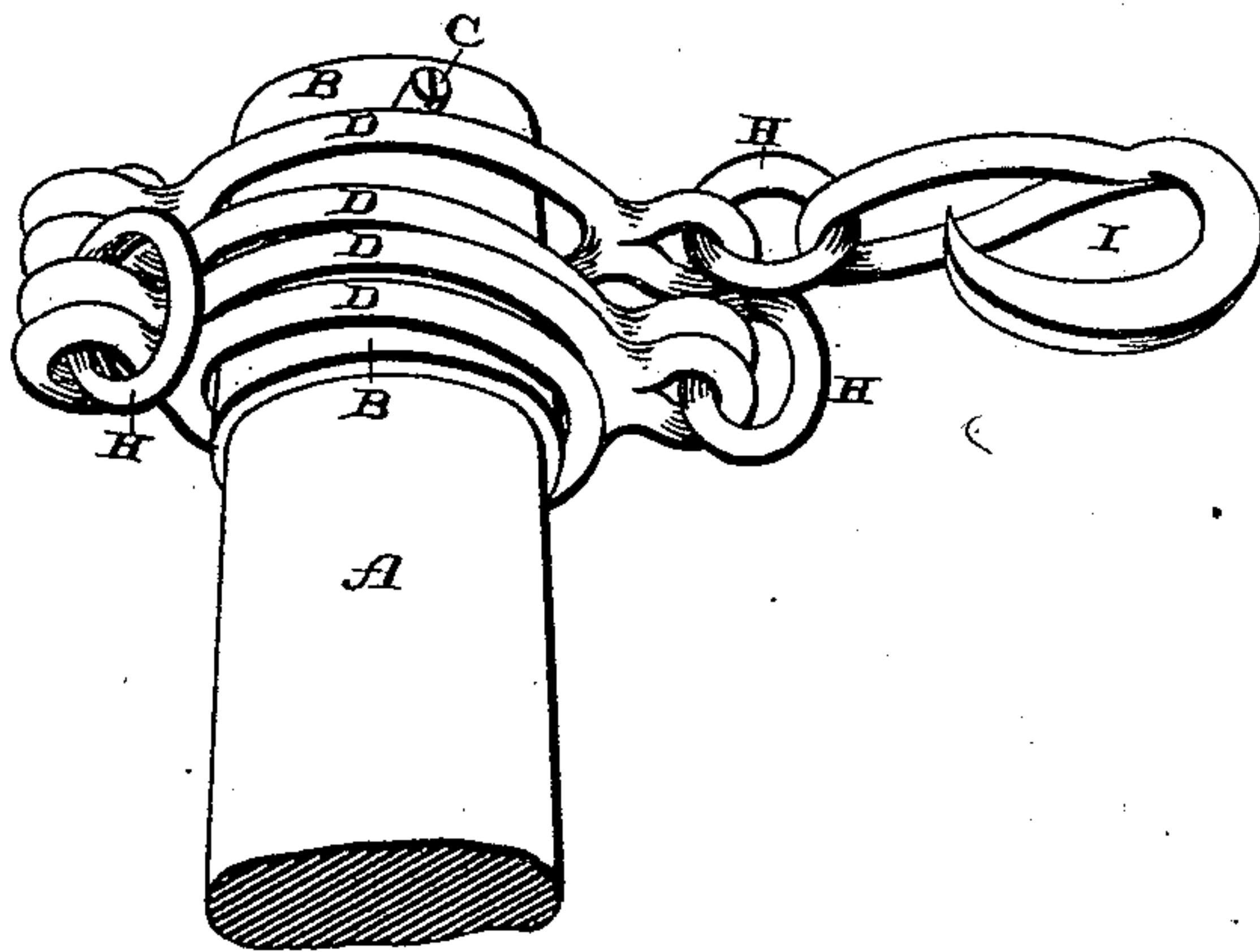
No. 436,229.

Patented Sept. 9, 1890.

*Fig. 1.*



*Fig. 2.*



Witnesses:

E. P. Ellis,  
B. Brockett,

Inventor:

A. T. Fox,

per  
Lehmann Mattison,  
att'y

# UNITED STATES PATENT OFFICE.

ALBERT T. FOX, OF KENOSHA, WISCONSIN.

## WHIFFLETREE-HOOK.

SPECIFICATION forming part of Letters Patent No. 436,229, dated September 9, 1890.

Application filed June 26, 1890. Serial No. 356,827. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT T. FOX, of Kenosha, in the county of Kenosha and State of Wisconsin, have invented certain new and useful Improvements in Whiffletree Attachments; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in whiffletree attachments; and it consists in the combination, with a whiffletree provided with a spring, key, spur, or pin, of a series of large rings which will fit over the end of the ferrule upon the whiffletree, and which are connected by small rings which allow the large rings sufficient play to be placed over the end of the whiffletree and the hook attached to the other end of the chain and which makes connection with the trace, all of which will be more fully described hereinafter.

The object of my invention is to do away with trace-buckles and the heel-chains for light and heavy harness, and to provide a chain which is connected directly to the end of the whiffletree and which can be shortened and lengthened at will.

Figure 1 is a plan view of my attachment, showing the chain lengthened out. Fig. 2 is a similar view showing the chain shortened up.

A represents the whiffletree, which is provided with a ferrule B upon each end, and in which is placed a spring, spur, or pin C for preventing the large rings D of the chain from slipping off from the end of the whiffletree.

The chain is composed of a number of large rings D, which fit over the end of the ferrule, as shown, and which are connected by means

of a number of small rings H, which allow the large rings any desired amount of play. To the outer end of the chain is fastened a hook I for making connection with the rear end of the trace.

Any one or more of the large rings can be passed over the end of the whiffletree when the chain is to be shortened, or removed from the end of the whiffletree when the trace is to be lengthened, and thus do away with trace-buckles for lengthening or shortening the trace, and also with heel-chains.

By doing away with trace-buckles all necessity of punching holes through the trace is obviated.

By doing away with the old style of heel-chains, which are stitched to the ends of the traces and which are continually hitting the horses on their hind legs, a great annoyance to nervous horses is dispensed with.

In order to keep the large rings from moving inward upon the end of the whiffletree, a flange or collar may be formed upon the inner end of the ferrule B.

When all of the rings are folded upon the ferrule, as shown in Fig. 2, a noiseless and neat device is formed, and by means of which a trace can be lengthened and shortened at will.

Having thus described my invention, I claim—

An attachment for a whiffletree, consisting of a number of large and small links, which are connected so as to form a chain, the large links being adapted to catch over the end of the whiffletree, substantially as shown.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT T. FOX.

Witnesses:

L. D. JONES,  
JAMES CAVANAGH.