

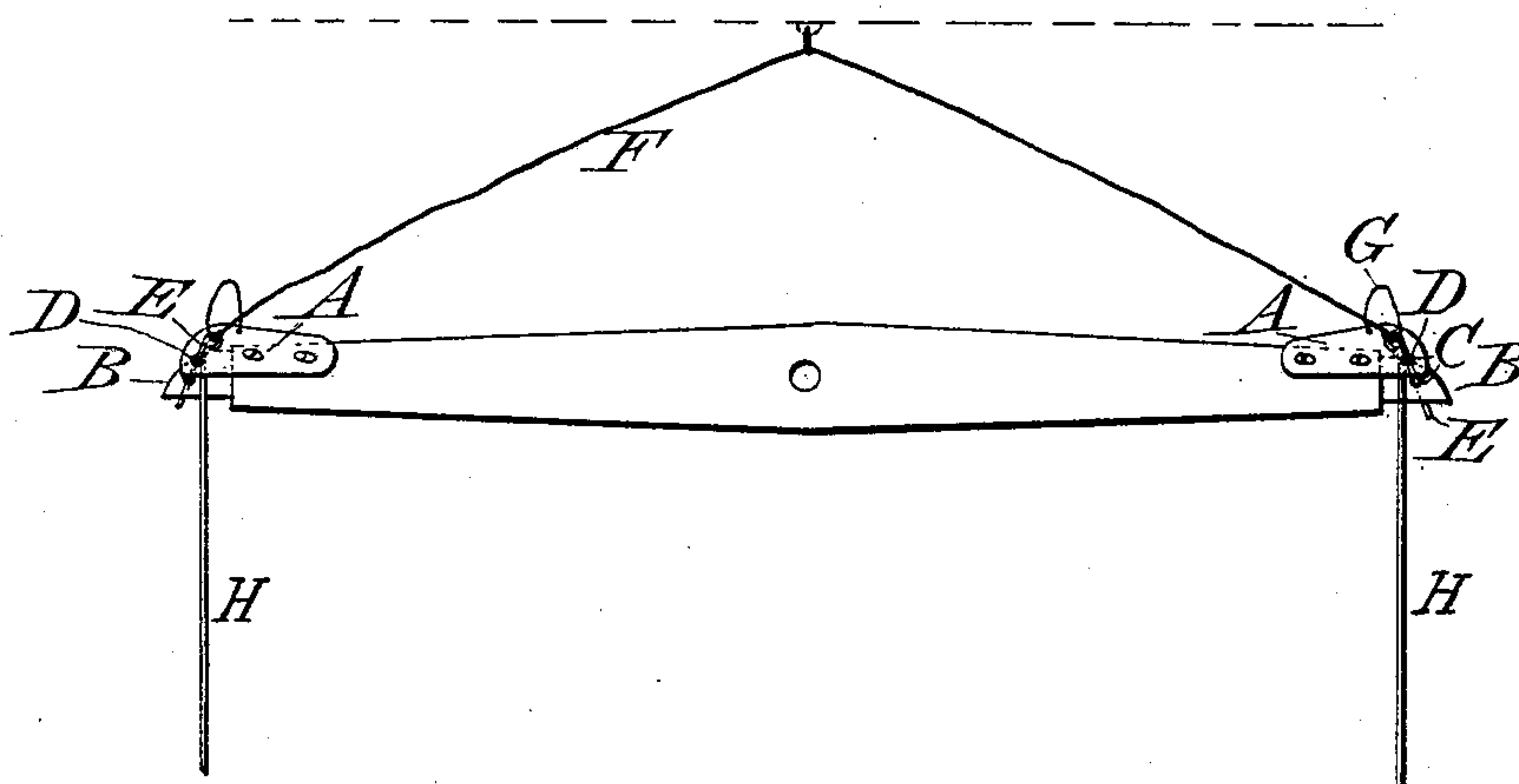
(No Model.)

J. F. RICHARDSON.  
Horse Detacher.

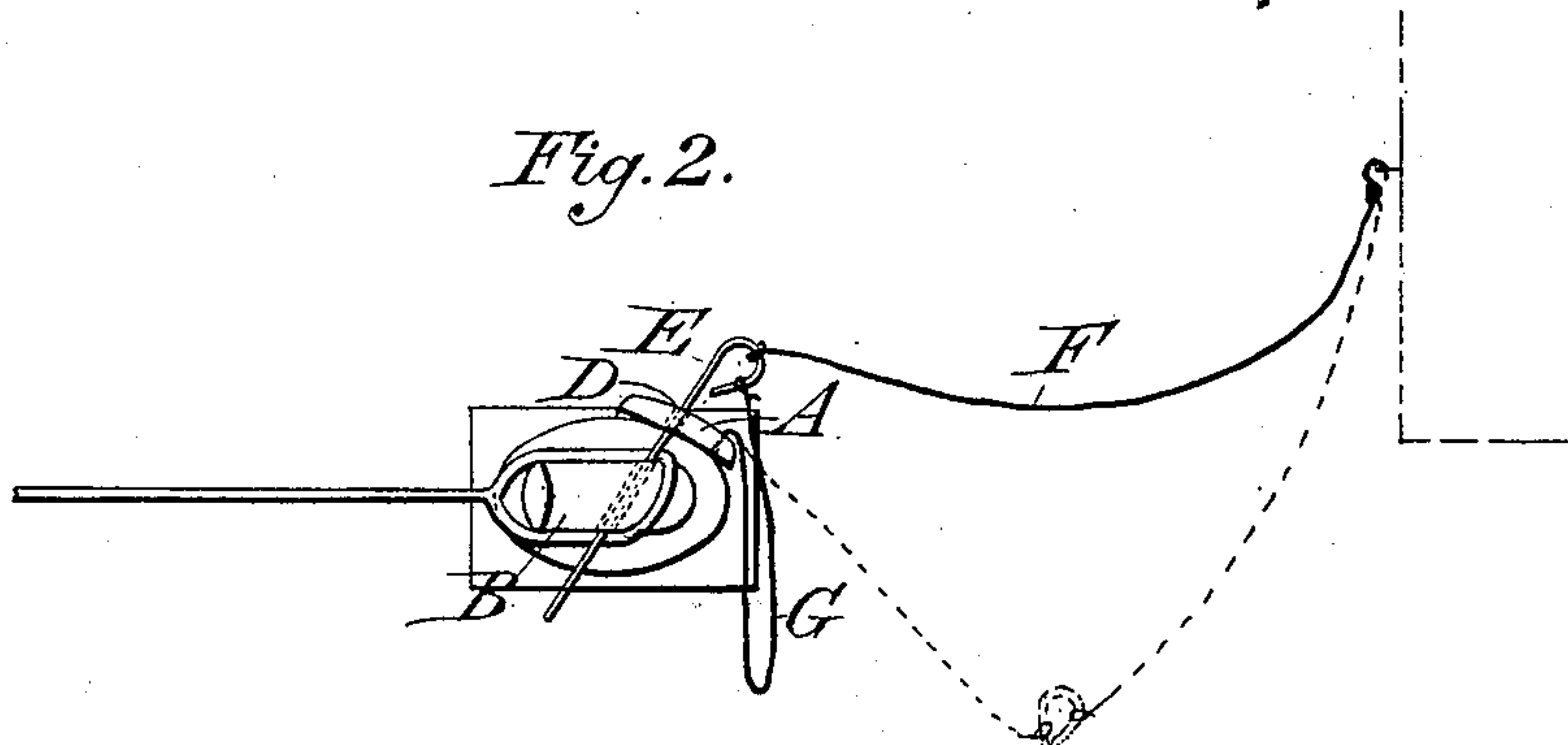
No. 236,512.

Patented Jan. 11, 1881.

*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Attest:*

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*J. C. Parker*

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*by A. R. Brown*  
*Atty.*

# UNITED STATES PATENT OFFICE.

JOSEPH F. RICHARDSON, OF GREENVILLE, KENTUCKY.

## HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 236,512, dated January 11, 1881.

Application filed November 1, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH F. RICHARDSON, a citizen of the United States, residing at Greenville, in the county of Muhlenburg and State of Kentucky, have invented certain new and useful Improvements in Safety-Whiffletrees, of which the following is a specification, reference being had to the annexed drawings, in which—

Figure 1 is a top view of a whiffletree with my improved attachments. Fig. 2 is an end view of the same, and Fig. 3 is a detail.

Similar letters indicate like parts in the several views.

The object of my invention is to provide a simple and effectual means of attaching the traces to a whiffletree, so that they may be readily released for the purpose of freeing the horse from the vehicle whenever he becomes unmanageable.

My improved whiffletree is provided on its upper surface at each end with a flange, A, in the projecting portion of which is an inclined opening or perforation, D, for the reception of the trace-pin. Into the end of the whiffletree, below and in front of the flange A, is secured a clip, B, over which the cockeye or end of the trace is to be passed. This clip is beveled or rounded on its upper and rear side, being slightly curved forward toward its outer end, so that a trace placed thereon will readily slip off unless held in position. The trace is secured in place by means of a pin, E, that passes through the inclined opening in the flange A and through a corresponding opening or perforation, C, in the outer end of the clip B. The pins E E, at each end of the whiffletree, are connected by a slack cord, F,

of sufficient length to allow its central portion to extend up to a point convenient to the hand of the driver, where it is held by a suitable hook. To the head of each pin is also secured a short cord, G, the opposite end of which is attached to the whiffletree, so that when the pins E E are drawn by the cord F they are prevented from falling to the ground.

After the traces H H are slipped on the clips the pins E E are dropped through the opening in the flange, passing outside of the trace and then through the opening in the clip, so that when the traces are pulled by the horse they slip easily on the rounded rear side of the clips against the pins, which alone hold them in place.

It will be observed that the flange A and clip B are secured to the whiffletree in such a position that there is a sufficient space between them to allow the extreme end of the trace to work freely, and also that a line drawn through the inclined openings C D will strike the vehicle at a point convenient to the hand of the driver, so that the pins E E can be easily drawn in a straight line, thus releasing the traces without difficulty whenever desired.

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

The combination, with a whiffletree, of the flange A and beveled clip B, each having inclined perforations for the reception of the pin E, provided with cords F G, as and for the purpose specified.

JOSEPH F. RICHARDSON.

Witnesses:

JAMES H. BOWDEN,  
S. M. BARGER.