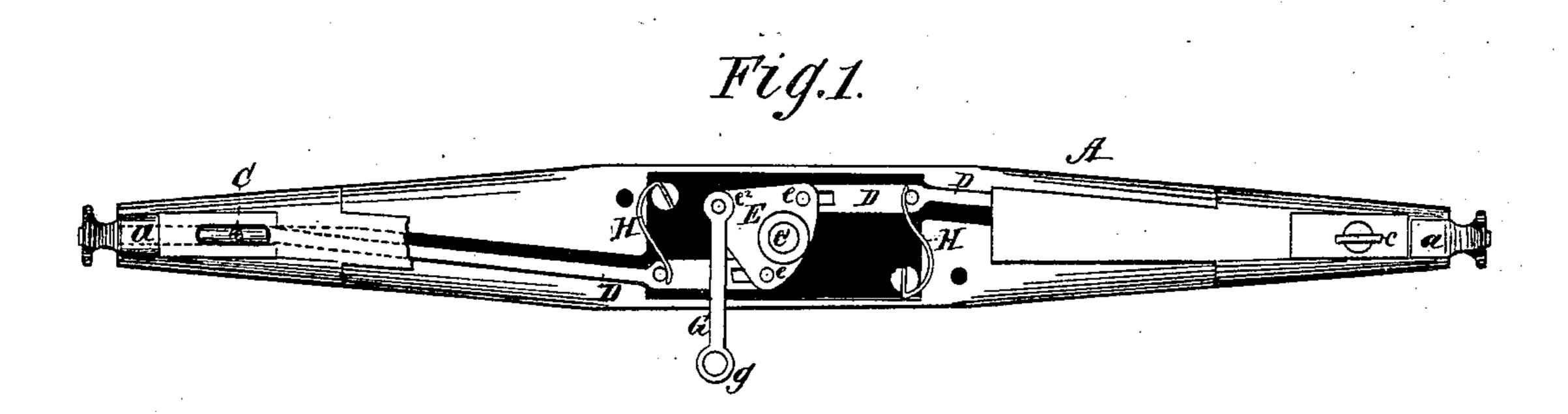
G. R. EDWARDS. Whiffletrees.

No.148,433.

Patented March 10.1874.



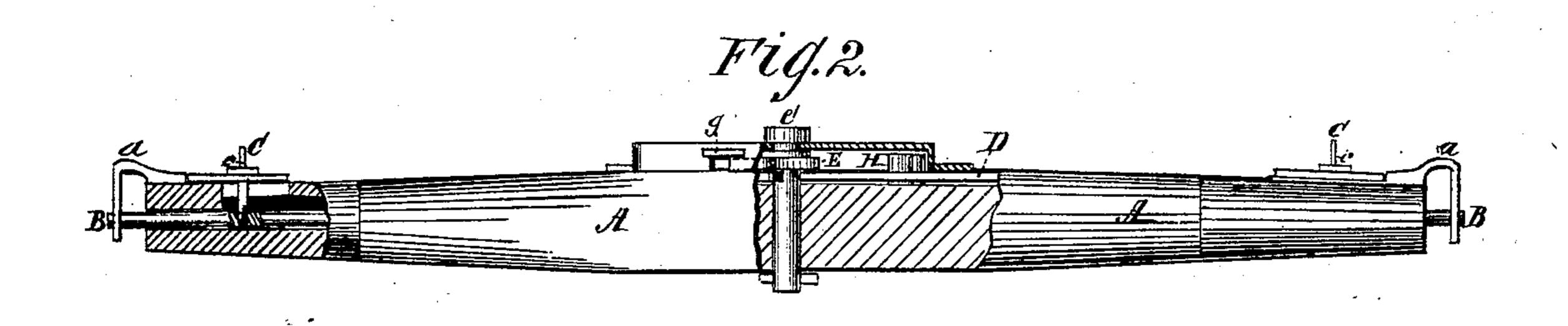
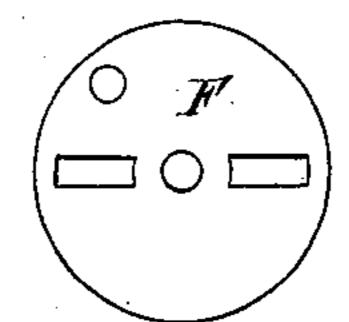


Fig.3.



Witnesses: Mathys.

blou Chemon

Geo. R. Jedwards

Per Jun 16

Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE R. EDWARDS, OF GALENA, ILLINOIS.

IMPROVEMENT IN WHIFFLETREES.

Specification forming part of Letters Patent No. 148,433, dated March 10, 1874; application filed February 7, 1874.

To all whom it may concern:

Be it known that I, George R. Edwards, of Galena, in the county of Jo Daviess and State of Illinois, have invented a new and Improved Whiffletree; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a top, and Fig. 2 a side, view, both partly broken away. Fig. 3 is a plan view of a circle-plate, which is preferably, but

not necessarily, employed.

The invention relates to that class of whiffletrees in which means are employed to release therefrom the traces in case of a runaway or other accident, so that the horse will at once leave the vehicle, thus preventing its fracture or the injury of its occupants.

A is a whiffletree, having on each end a socket, with the end-apertured guard a, and an internally-sliding spring-bolt, B, that plays in and out of the aperture of guard. C is a bolt, which is perpendicular to and rigidly connected with each bolt B, and movable back and forth in a slot of socket and whiffletree. c is a thumb-piece on the outside of socket, and belonging to the bolt C.

In hitching up or removing the horse from vehicle, the thumb-pieces are used to unlock the bolts from the traces; but if the horse runs away, or for other reason it is desirable in a moment to separate the horse from the carriage, it is necessary to employ other means for acting on the spring-bolts. For this pur-

pose, I connect the bolts C, by rods D, with opposite ends of a triangular lever-plate, E, preferably fulcrumed in a circle-plate, F. H H are springs, that tend always to hold the bolts forward and in the end apertures of guards a, while G is a rod, having eye g that receives one end of a cord, whose other end is placed within reach of driver.

It will be observed that the triangular plate E has the two pivot-studs e e of the rods D near the vertexes of two angles, and on the opposite sides of fulcrum e^1 , which is aligned therewith, while the stud e^2 of rod G is placed near the vertex of the remaining angle. This allows the spring-bolts to be worked easily by the cord in the hand of driver, and to be easily withdrawn from the trace-holes.

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

1. The combination of lever-plate E, springs H H, rods D, and bolts C, to hold the bolts B yieldingly in the end apertures of the guards a, as and for the purpose set forth.

2. The combination, with spring-held rods D D and draw-rod G, of a triangular plate-lever, E, having the rods D D pivoted at e e in the vertexes of two of the angles, one on each side of fulcrum e¹ and in line with it, the draw-rod G being pivoted at e² in the vertex of the other angle, as and for the purpose specified. GEORGE RICE EDWARDS.

Witnesses:

CHAS. BROWN, D. H. DILDINE.