

(No Model.)

F. A. HOYT.  
CAR COUPLING.

No. 292,557.

Patented Jan. 29, 1884.

Fig 1

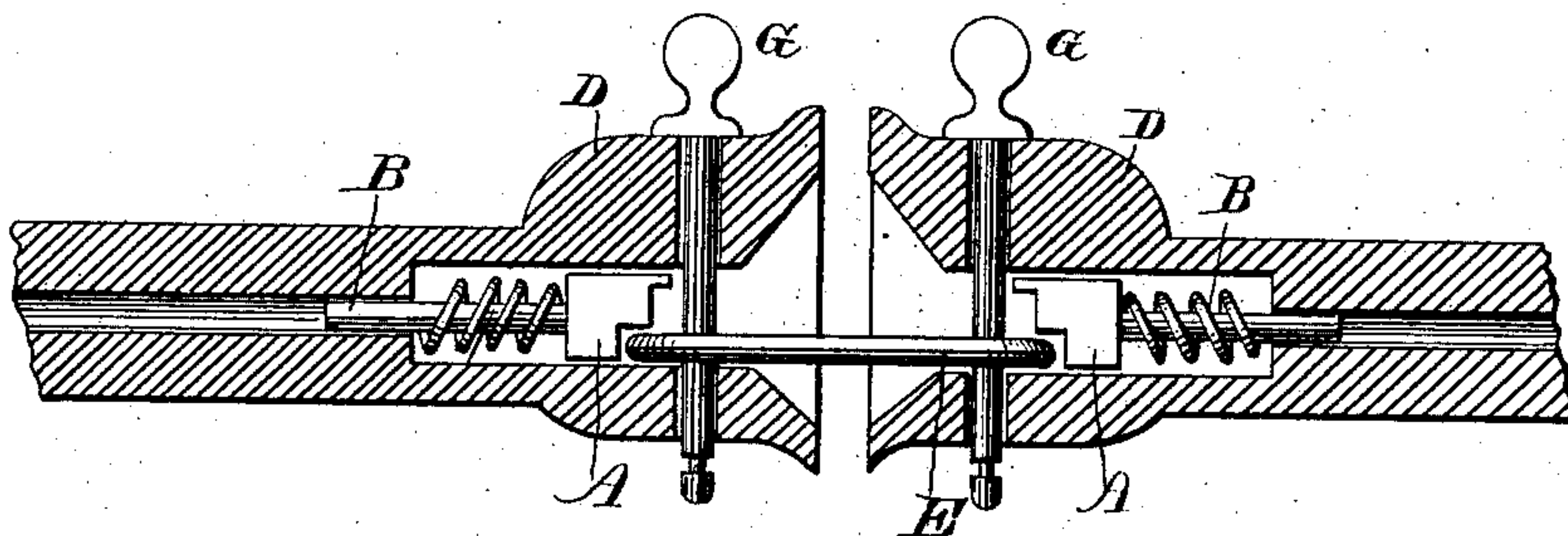
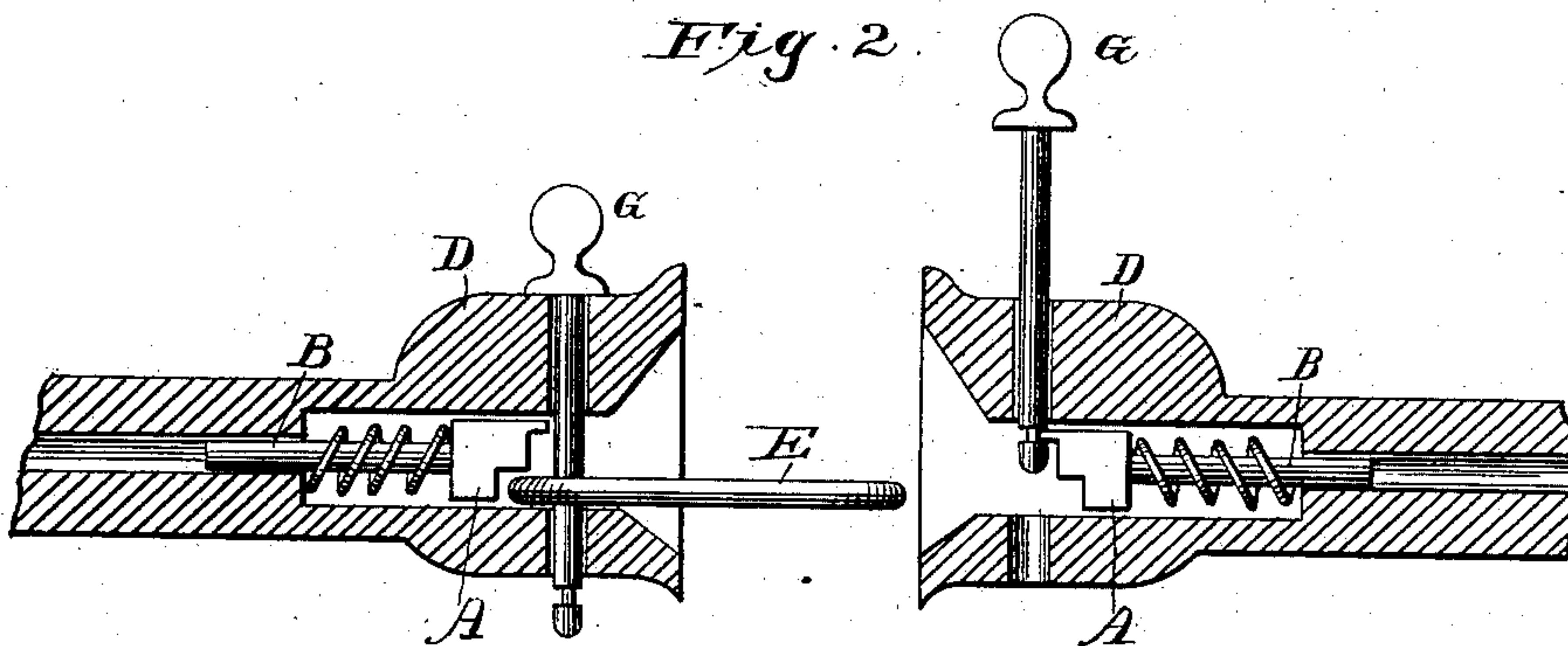


Fig. 2



Witnesses:

H. C. Miller  
S. M. Wane

Inventor

Francis A. Hoyt

# UNITED STATES PATENT OFFICE.

FRANCIS A. HOYT, OF WEST CLEVELAND, OHIO, ASSIGNOR OF TWO-THIRDS  
TO L. H. WARE AND J. W. MOORE, BOTH OF SAME PLACE.

## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 292,557, dated January 29, 1884.

Application filed June 12, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS A. HOYT, of West Cleveland, in the county of Cuyahoga, State of Ohio, have invented a new and useful  
5 Device for Coupling Railroad-Cars; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

10 Figure 1 is a sectional view of the draw-heads, link, and pin now in use, with my device attached to them, coupled. Fig. 2 is the same, showing them uncoupled.

The object of this invention is to provide a  
15 coupling that can be operated without going between the cars when they are to be coupled, thereby saving the loss of life and limb and doing it quicker, thereby saving time and labor; also saving the loss of coupling-pins.

20 The invention consists in the peculiar construction and operation of the cam A, which is placed in the draw-head D, back of the coupling-pin C, and held in place and operated by the spring B, as shown in Figs. 1 and 2. It  
25 has a projection near its center, which rests on the top of the link E and holds it up in a horizontal position in one of the draw-heads,

as shown in Fig. 2, left side; also another projection near the top, which fits into a slot in the end of the pin G, as shown in Fig. 2, right  
30 side. When drawn up, the last-named projection prevents the pin from being drawn out and lost. It also holds the pin up in a perpendicular situation, leaving the draw-head open to receive the link when the cars are to be coupled.  
35 It is held in its place and operated by spring B, as shown in Figs. 1 and 2. It is coupled by simply pushing the cars together, when the link E enters the draw-head D, strikes the cam A, pushing it back and relieving the pin G,  
40 allowing it to drop down through the link E and draw-head D, thereby coupling the cars without the aid of the hand or anything else to hold it up, thereby making it a self-coupling.  
45

What I claim as my invention is—

The arrangement of a cam, A, having two projections, as shown, working in combination with a slotted pin, C, in the draw-head D, in the manner set forth.

FRANCIS A. HOYT.

Witnesses:

J. O. RAEDER,  
G. W. CROWELL.