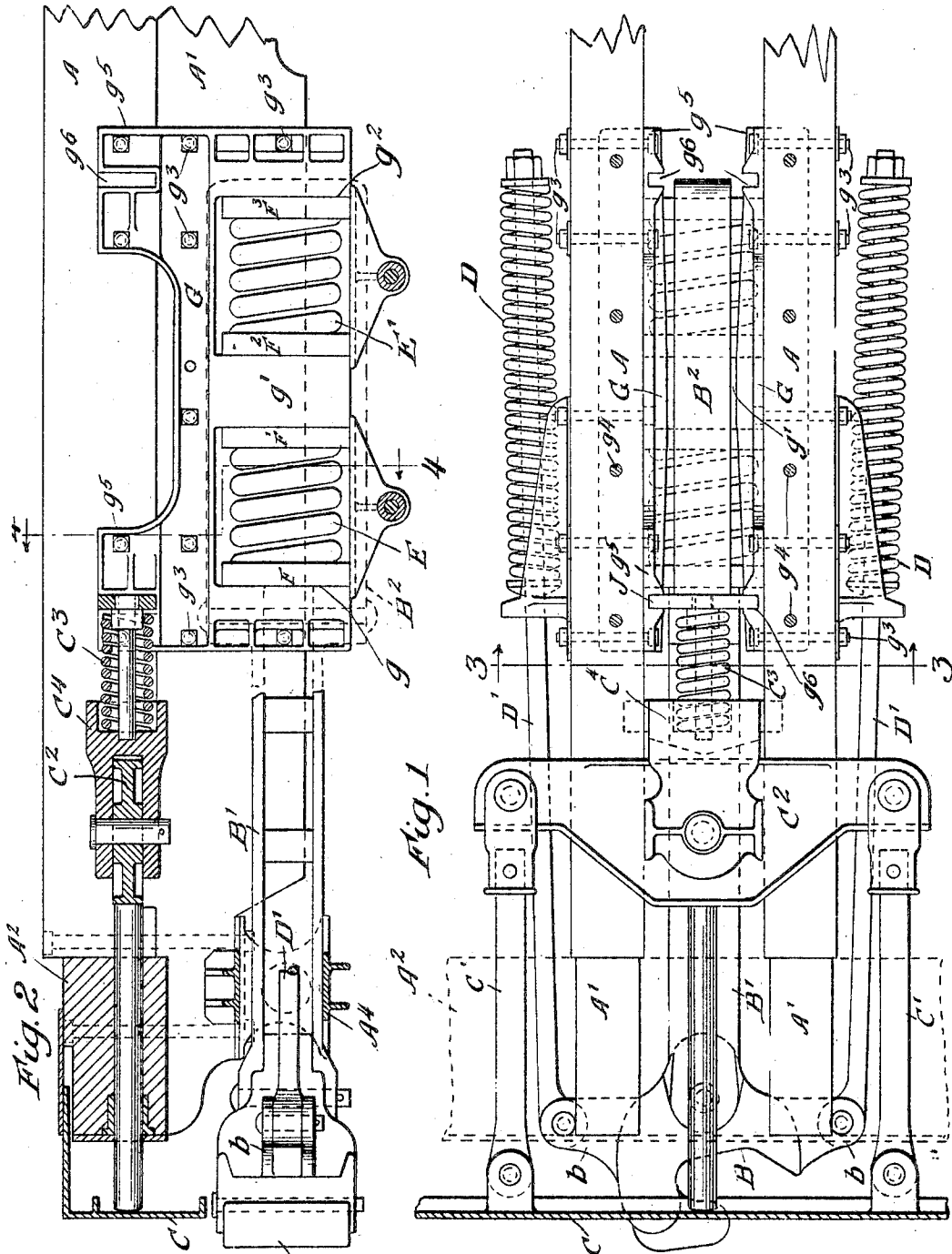


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DRAFT RIGGING FOR RAILWAY PASSENGER CARS.

APPLICATION FILED MAY 31, 1905.

2 SHEETS—SHEET 1.



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Fig. 4

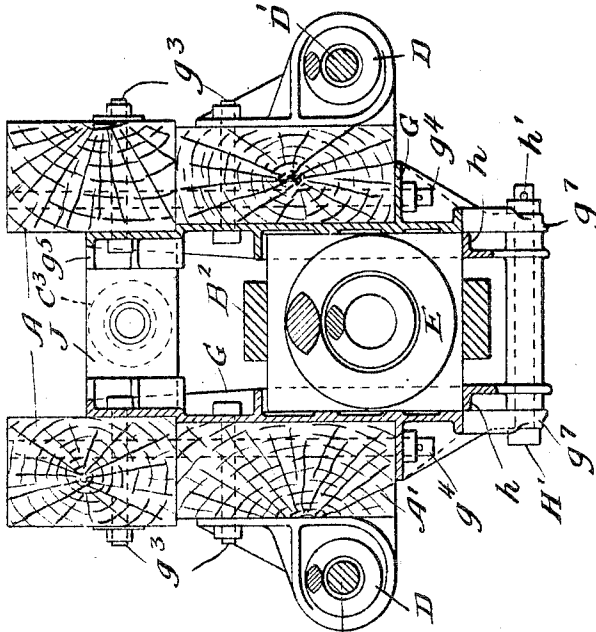


Fig. 3

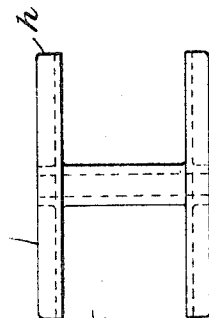
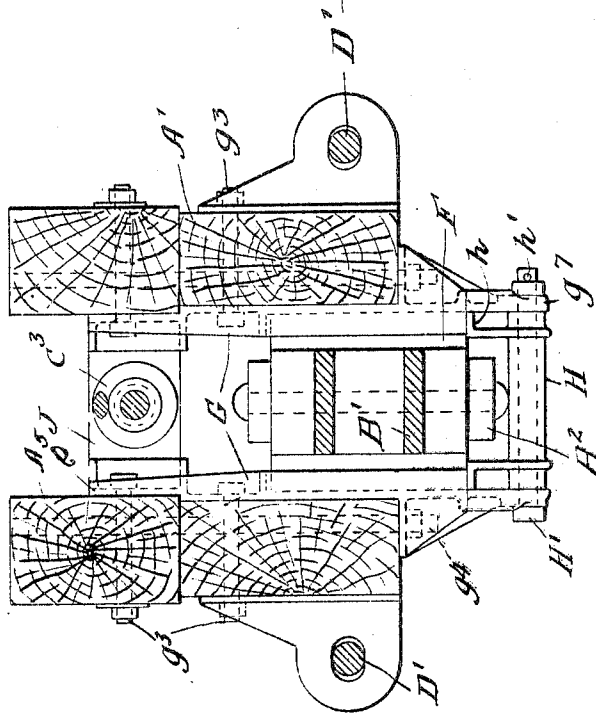


Fig. 5

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DRAFT-RIGGING FOR RAILWAY PASSENGER-CARS.

No. 802,465.

Specification of Letters Patent.

Patented Oct. 24, 1905.

Application filed May 31, 1905. Serial No. 262,975.

To all whom it may concern:

Be it known that I, JOHN R. MITCHELL, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Draft-Rigging for Railway Passenger-Cars, of which the following is a specification.

My invention relates to improvements in draft-rigging for railway passenger-cars.

My invention consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described, and particularly specified in the claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a plan view, partly in horizontal section, of a passenger-car draft-rigging embodying my invention. Fig. 2 is a side elevation, partly in vertical horizontal section, on line 2 2 of Fig. 1. Fig. 3 is a vertical section on line 3 3 of Fig. 1. Fig. 4 is a vertical section on the broken line 4 4 of Fig. 2, and Fig. 5 is a detail plan view of the combined tie-casting and

guide.

In the drawings, A represents the center sills; A', the draft-timbers; A², the end sill, and A⁴ the carry-iron.

B is the coupler, B' the draw-bar, and B² the draw-bar strap or yoke.

C is the buffer-plate; C', the buffer-rods; C², the equalizer; C³, the buffer-spring, bearing at its front end against the buffer-head C⁴.

D D are the coupler-centering springs, connected by rods D' D' to the ears or lugs b on the coupler B.

E E' are tandem-arranged draft-rigging springs.

F F' F² F³ are the followers, and G G the side plates or stop-castings, having shoulders or stops g g' g² for the followers to abut against and secured to the center sills and draft-timbers by horizontal and vertical connecting-bolts g³ g⁴. Each of the side plates or stop-castings G is furnished with an upwardly-projecting horn g⁵, having a slot or socket g⁶ to receive the stationary follower J, against which the rear end of the buffer-spring C³ abuts. Each of the side plates or stop-castings G is preferably furnished with a buffer-spring-bearing horn g⁵ at each of its ends, so that the side plates or stop-castings may be

used as either right or left. The side plates or stop-castings G G are connected by combination tie-castings and draw-bar guides H H, having horizontal guide-flanges h to serve as lower guides to support the followers and for them to reciprocate upon and which fit between the downwardly-projecting lugs or ears g' on the side plates or stop-castings G. Connecting-bolts H' H' extend through the tie-castings H and are furnished with keys h' for securing the same in place.

I claim—

1. In a draft-rigging, the combination with the draw-bar, draft-rigging spring and followers, of side plates or stop-castings furnished each with an upwardly-projecting horn having a slot or socket therein to receive the stationary follower or abutment-plate of the buffer-spring, a buffer and buffer-spring above the draw-bar, and a stationary follower or abutment-plate for the buffer-spring fitting in said slots or sockets in the draft-rigging stop-castings, substantially as specified.

2. The combination with the draw-bar, draft-rigging spring and followers, of a buffer and buffer-spring above the draft-rigging spring, draft-rigging stop-plates or side castings having stops for the followers of the draft-rigging spring to abut against, and furnished with slots or sockets to receive the stationary follower or abutment-plate of the buffer-spring, and a stationary follower for the buffer-spring fitting in said slots or sockets of the draft-rigging stop-castings, substantially as specified.

3. The combination with draft-rigging side plates or stop-castings furnished with upwardly-projecting horns having sockets to receive a buffer-spring follower, of a stationary buffer-spring follower fitting in said sockets, substantially as specified.

4. The combination with draft-rigging side castings furnished with upwardly-projecting horns at each end thereof, having sockets to receive a buffer-spring follower, of a stationary buffer-spring follower fitting in the sockets in the horns of said stop-castings at one end of the stop-castings, substantially as specified.

5. In a draft-rigging, the combination with the draw-bar, draft-rigging springs and followers, of side plates or stop-castings fur-

nished each with an upwardly-projecting horn having a slot or socket therein to receive the stationary follower or abutment-plate of the buffer-spring, a buffer and buffer-spring above the draw-bar, a stationary follower or abutment-plate for the buffer-spring fitting in said slots or sockets in the draft-rigging stop-cast-

ings, and tie-castings H having guides *h* for the followers to rest and reciprocate upon, substantially as specified.

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Witnesses:

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