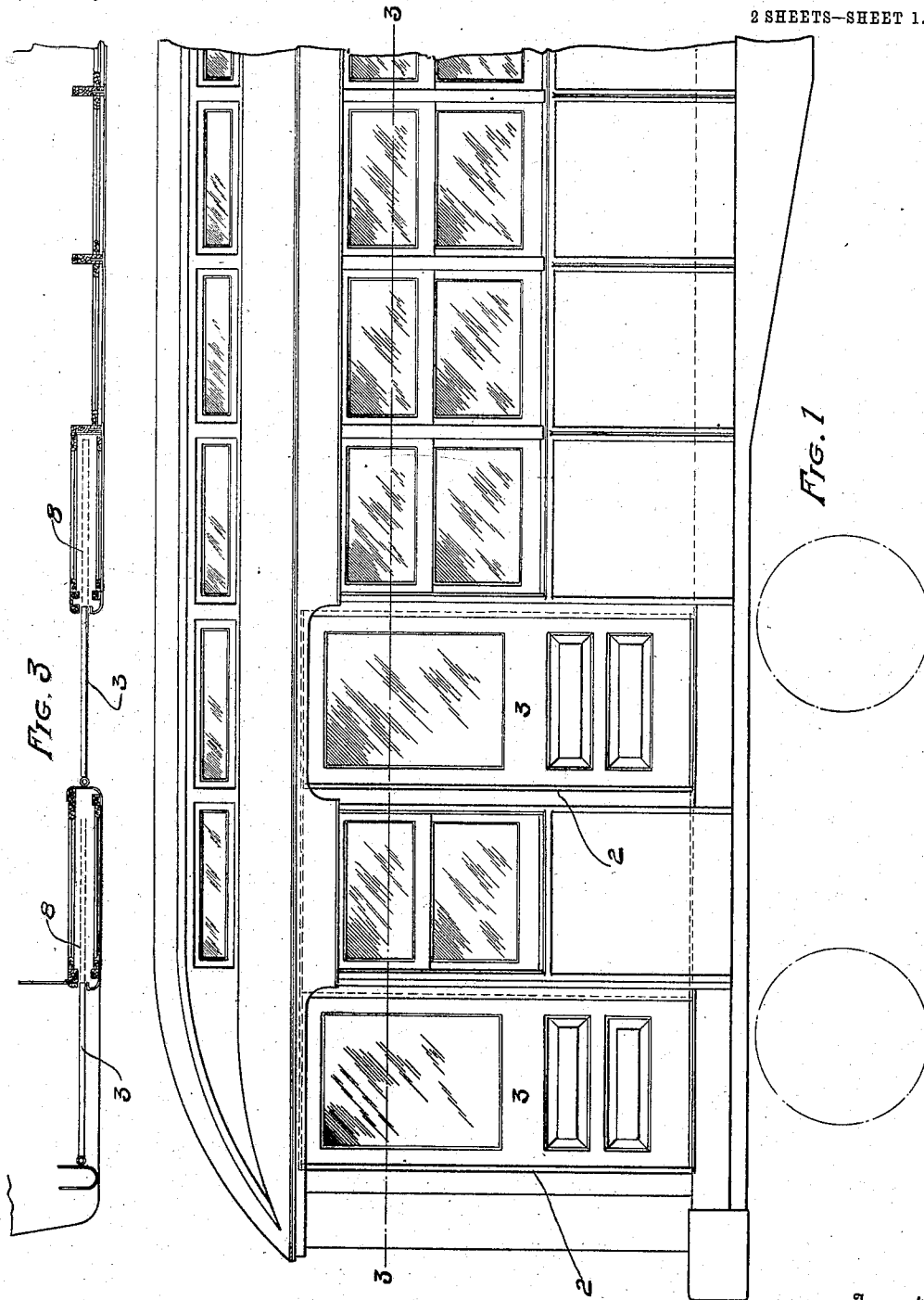


942,265.

P. M. KLING.
PASSENGER CAR.
APPLICATION FILED MAR. 17, 1908.

Patented Dec. 7, 1909.
2 SHEETS—SHEET 1.



Witnesses
Forster & Co.
Felix Koch

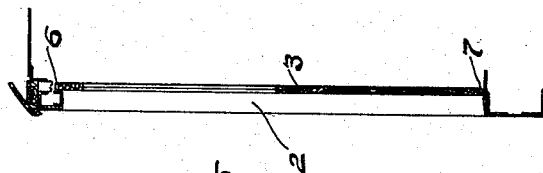
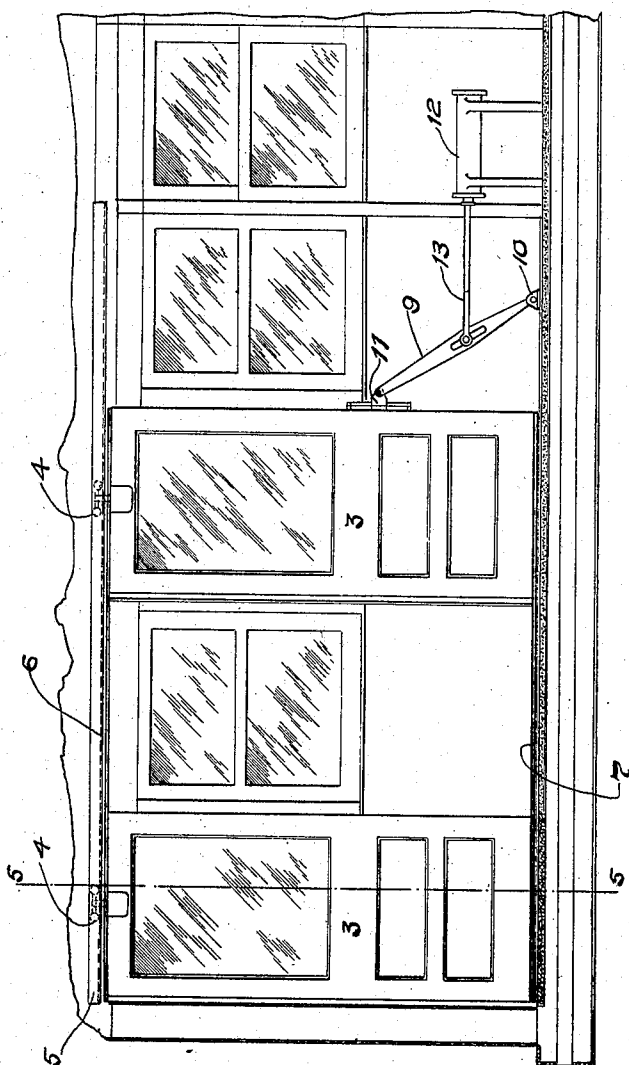
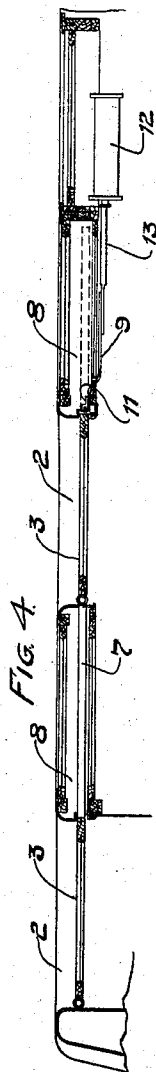
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Peter M. Kling
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Attorney

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2 SHEETS—SHEET 2.



Witnesses

Torsten Lindström
Felix Koch

FIG. 5

Peter M. Kling ^{Inventor}
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UNITED STATES PATENT OFFICE.

PETER M. KLING, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO PRESSED STEEL CAR COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION OF NEW JERSEY.

PASSENGER-CAR.

942,265.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed March 17, 1908. Serial No. 421,673.

To all whom it may concern:

Be it known that I, PETER M. KLING, of Pittsburg, (Northside,) Allegheny county, Pennsylvania, a citizen of the United States, have invented certain new and useful Improvements in Passenger-Cars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which like characters refer to like parts, and in which—

Figure 1 is a side elevation of substantially one-half of a car constructed in accordance with the present invention; Fig. 2 is a longitudinal section through the same; Fig. 3 is a horizontal section through the wall of said car on the line 3—3, Fig. 1; Fig. 4 is a like view showing the door operating mechanism; and Fig. 5 is a transverse section through one of the doorways and the wall of said car.

An object of the present invention is to provide a door system for that class of passenger cars known as "easy access" cars in which a plurality of doors is located at each end of the car on the side thereof, said object being to so arrange said doors and their operating mechanism that they may be opened and closed simultaneously.

Referring now in detail to the drawings, 1 represents the side of a car of any suitable construction and mounted on any suitable underframe, 2 the door openings or doorways, preferably two in number, located at each end of the car side, 3 are the doors for closing said openings 2. Doors 3 are hung on travelers 4 preferably one for each door located at the central portion of the upper edge of the door, traveling on a track 5 and suitably located above the door openings.

6 is a tie bar tying the pair of doors to each other at their upper edges, and 7 is a tie bar tying the pair of doors to each other at their lower edges.

8 are pockets formed in the car side into which the doors 3 are received when thrown open.

9 is an operating lever pivoted at 10 to the car floor or other suitable location and having a sliding connection 11 with one of the doors 3.

12 is a piston cylinder in which piston 13 reciprocates. Piston 13 is provided with a sliding connection with lever 9. Cylinder 12 may be provided with fluid pressure in any suitable manner controlled from any suitable point on the car.

The operation of the door system is as follows:—The guard, or brakeman, or conductor, such as the case may be, admitting through suitable controlling mechanism (not shown) pressure to either one side or the other of the head of piston 13 operates the lever 9 in either direction to throw the doors 3 into or out of their pockets 8. Doors 3 being connected simply by metallic straps an open space between the doors is thus provided which registers with one of the doorways when they are thrown into their pockets, thus leaving both doorways open for ingress or egress of passengers.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

In a passenger car, a plurality of doorways, in combination with a plurality of doors for closing said doorways, spacing bars at top and bottom of said doors tying said doors together to form a single door structure and causing the doors to move simultaneously, a track upon which said door structure travels, a single roller for each door for supporting the door structure, each roller located centrally of its door and means for operating said door structure.

The foregoing specification signed at McKees Rocks, Allegheny county, Pennsylvania, this eleventh day of March, 1908.

PETER M. KLING.

Witnesses:

T. J. JONES,
T. B. DENHAM.