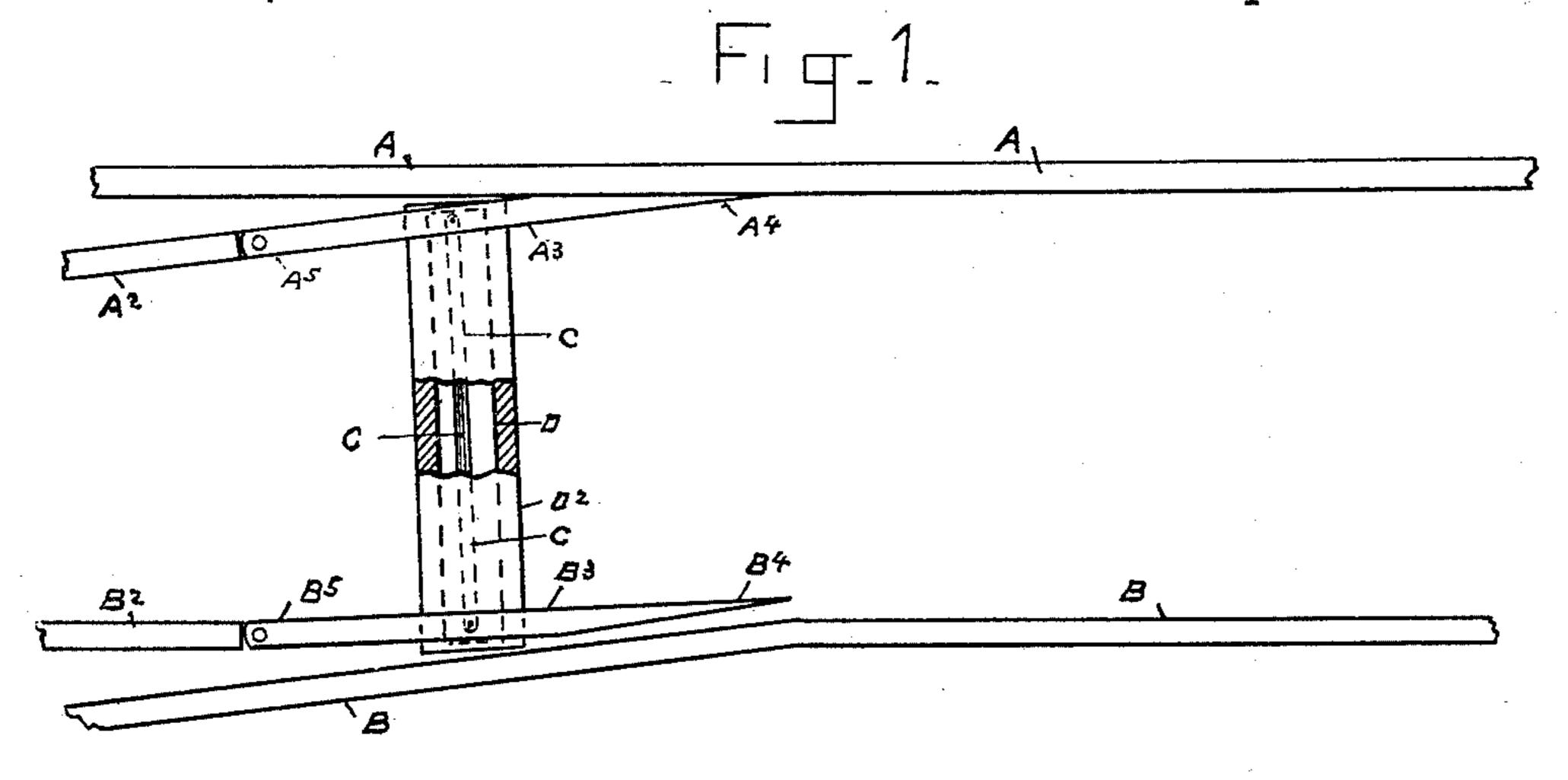
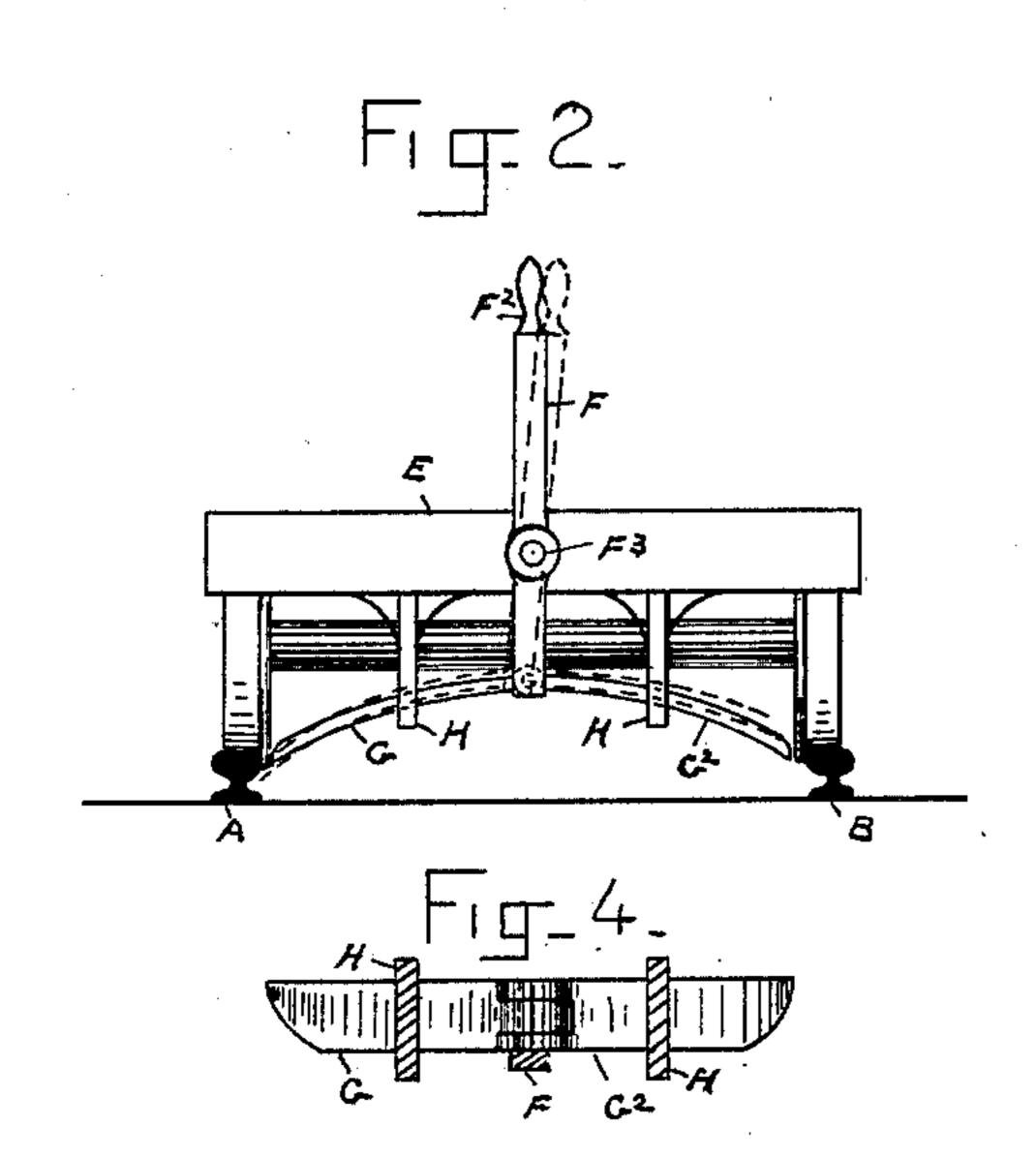
(No Model.)

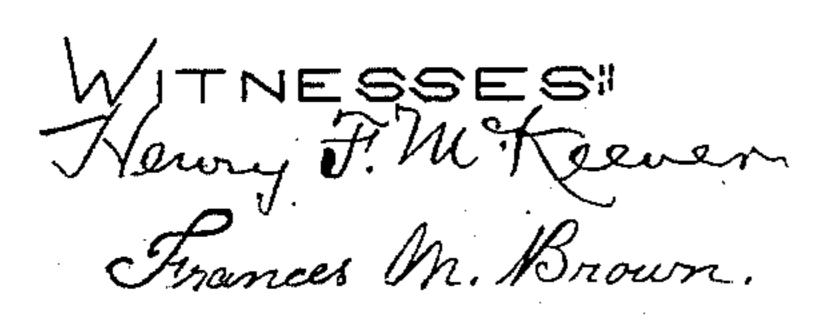
A. BARTON. RAILWAY SWITCH.

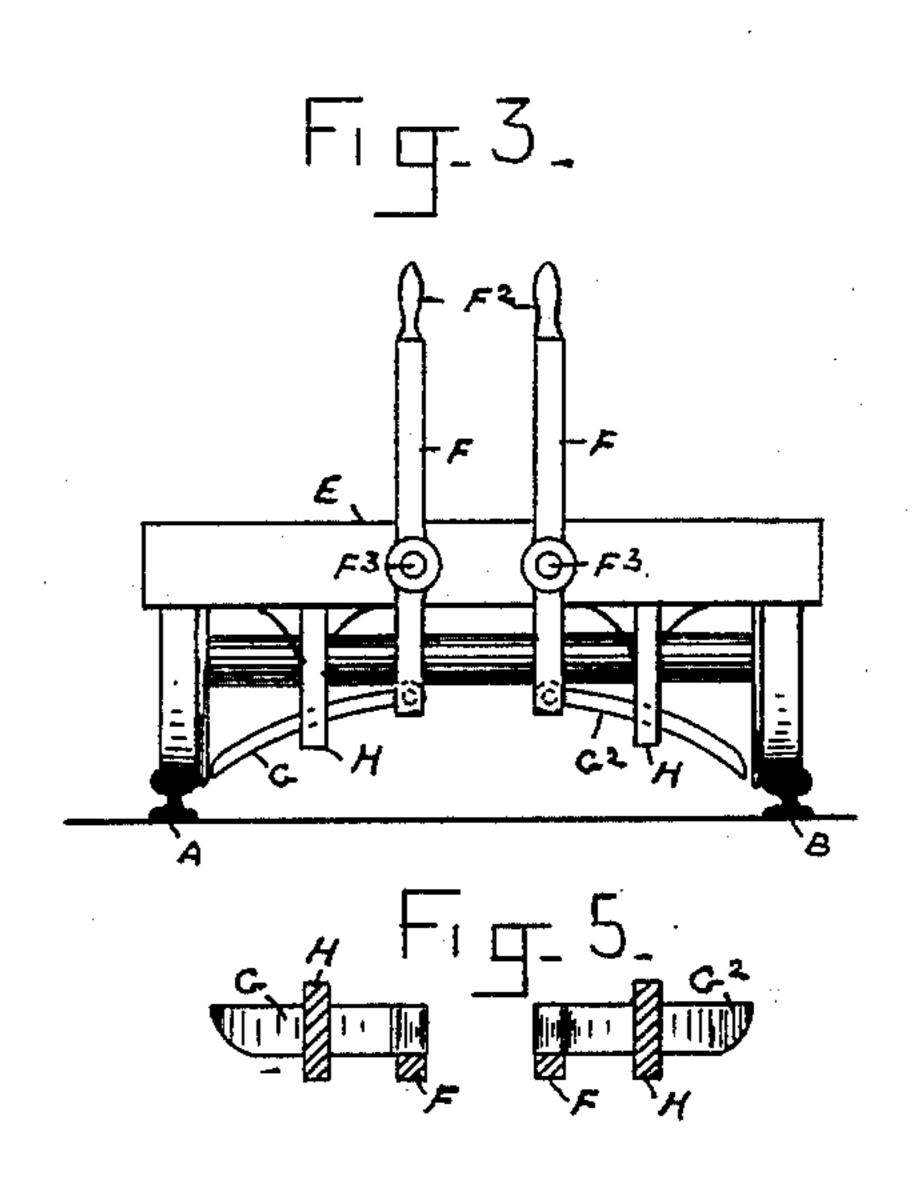
No. 435,724.

Patented Sept. 2, 1890.









Alfred Barton by his attorneys Brown Bros.

United States Patent Office.

ALFRED BARTON, OF BOSTON, MASSACHUSETTS.

RAILWAY-SWITCH.

SPECIFICATION forming part of Letters Patent No. 435,724, dated September 2, 1890.

Application filed March 25, 1890. Serial No. 345,203. (No model.)

To all whom it may concern:

Be it known that I, ALFRED BARTON, a citizen of the United States of America, and a resident of the city of Boston, in the county 5 of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Railway-Switch and Car Attachments for Operating Same Therefrom, of which the following is a full, clear, and exact

to description.

The railway-switch of this invention in substance is composed of two switch-tongues, both having their points presented in the same direction, of two lines of rails and each in ex-15 tension of one rail of each line and at its heel end pivoted thereat, and a bar crossing between and at its opposite ends jointed to the switch-tongues between their opposite ends, and thereby joining them one to the other, in 20 combination with means, substantially such as hereinafter described, which are held on a car otherwise suitably adapted for the lines of rails, and all so that by properly operating said means the switch-tongues can be moved 25 either to open and to close either line of rails.

In the drawings, forming part of this specification, Figure 1 is a plan view of two lines of rails and of the improved switch open to one and closed to the other line. Figs. 2 and 30 3 are end views of a car, showing means held on the car, and in two different forms of arrangements, but the same in substance for operating the tongues of the switch, Fig. 1. Figs. 4 and 5 are horizontal sections, respect-35 ively, of Figs. 2 and 3 on planes just under

the axles of the car-wheels.

In the drawings, A A² B B² represent four

runs of rails.

A³ and B³ are two switch-tongues, respect-40 ively, in extension of a rail A2 or B2, and both joined together by a cross-bar C, which at its opposite ends is pivoted to the switch-tongues between their points A4 B4 and their heels A5 B5, and thus with the switch-tongues at their 45 heels properly pivoted and, as well known, in relation to the rails of which they are in continuation, the switch-tongues are adapted to move in unison, and thereby with one tongue in position against the rail next adjacent and 50 outside of the rail of which it is a continua-

tion, the other tongue will be off from the rail next adjacent to and outside of the rail of which it is a continuation, and vice versa. The switch-tongues, in either position described, open one and close the other line of 55 rails, as is obvious. The cross-rod C of the switch-tongues preferably lies in a trench or boxing D between the rails, covered by a lid D², preferably attachable and detachable at

pleasure.

E is a railway-car, (shown only in end view,) which is to be of any suitable construction and adaptation for the lines of rails described. This car, at either or both ends, only one end being shown, has means for operat- 65 ing from the car the switch-tongues described. Two forms of the means are shown. Those of Figs. 2 and 4 consist of an upright lever F, having at its upper end a handle F2, and at F³ it is fulcrumed on the car in combination 7° with arms G G², which project from opposite sides and are pivoted on the lower end of the lever, and each arm is curved from end to end and passes horizontally through a suitable guideway and support H therefor, both of 75 which depend from and are held on the under side of the car-body. In Figs. 3 and 5 each arm G G² has a vertical operating-lever F of its own; but otherwise the means are the same as those of Figs. 2 and 4.

In the arrangement of mechanism of either Figs. 2 and 4 or Figs. 3 and 5 a swing of the operating-lever F in either direction serves to bring an arm G or G2 into proper relation to and bearing on the rails and switch-tongues 85 to secure a movement of either one or the other of the switch-tongues, as the case may be, in proper direction to open or to close

either one or the other lines. The improvements of this invention are 90 particularly designed for street-railways and cars; but they are not to be limited in that relation.

Having thus described my invention, what I claim, and desire to secure by Letters Pat- 95 ent, is—

A railway-switch composed of two switchtongues, both having their points presented in the same direction, of two lines of rails and each in extension of a rail thereof and pivoted 100

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at the heel thereat, and of a bar C, crossing between and at its opposite ends joined to the switch-tongues intermediate of their opposite ends, in combination with means held on a 5 railway-car and composed of a lever or levers F and arms G G², arranged in connection therewith, and together adapted by swinging a lever in either direction to place one of said arms into or out of operative position as to a

switch-tongue, substantially as described, for 10 the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ALFRED BARTON.

Witnesses: ALBERT W. BROWN, EDW. HAMILTON.