

(No Model.)

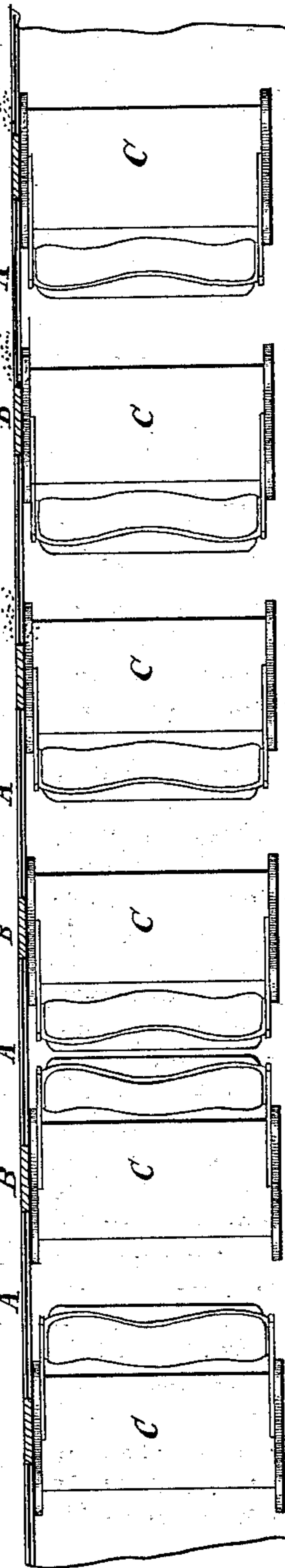
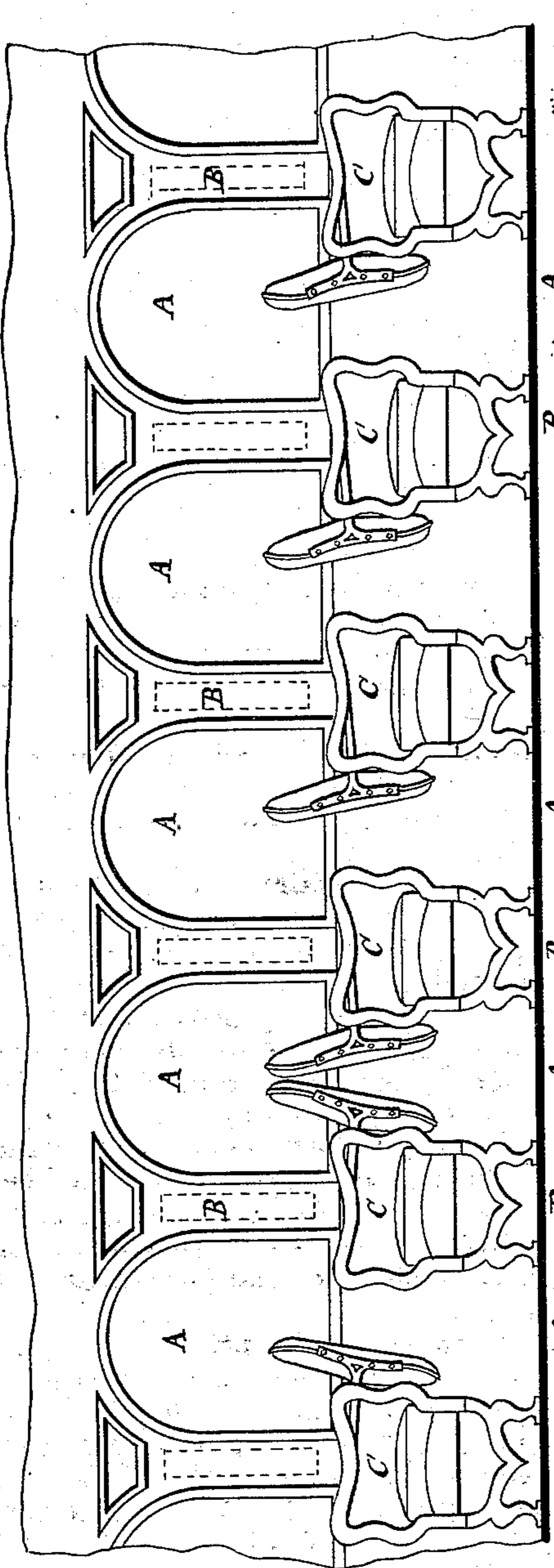
W. H. H. YOUNG.

RAILWAY CAR.

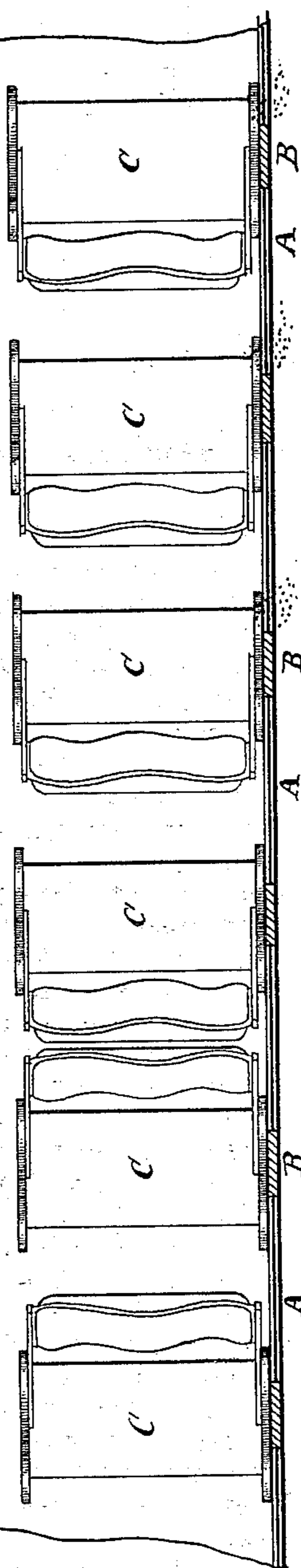
No. 280,280.

Patented June 26, 1883.

— FIG I —



— FIG II —



— WITNESSES —

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# UNITED STATES PATENT OFFICE.

WILLIAM H. H. YOUNG, OF BALTIMORE, MARYLAND.

## RAILWAY-CAR.

SPECIFICATION forming part of Letters Patent No. 280,280, dated June 26, 1883.

Application filed November 7, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WM. H. H. YOUNG, of the city of Baltimore, and State of Maryland, have invented certain Improvements in Railroad-Cars, of which the following is a specification.

The object of this invention is to arrange the chairs or seats of a railroad-car in such position with reference to the windows that the passengers opposite to any one of the windows shall be out of the track or path taken by cinders, dust, &c., entering the car through the said window. With this view I place the back of the seats, which are arranged transversely of the car, centrally of the windows, thereby giving a sufficient space for the entrance of the cinders entirely in the rear of the said seats.

In a series of experiments I have demonstrated the fact that cinders, smoke, &c., do not enter the car through the whole area of the windows, but only through about one-third of that space and the section next to the rear window-frame. This is owing principally to the inability of the air-current carrying the cinders to suddenly change its direction, and the rapidity of motion of the train. While a slight deviation from the central line of the windows, as described, would not necessarily defeat the object in view, the central position is important, owing to the reversible character of the seats.

In the further description of my invention which follows, reference is made to the accom-

panying drawings, forming a part hereof, and in which—

Figure I is a longitudinal section of a part of a car illustrating my invention. Fig. II is a sectional plan of the same.

Similar letters of reference indicate similar parts in both views.

A A are the windows, and B B the spaces between them.

C C are the chairs or seats, two of which are shown in a position the reverse of the others.

In Fig. II the body of cinders entering the car-windows are shown by dots, and it will be seen that while they pass entirely in the rear of passengers seated on one chair, they are a sufficient distance in front of the passengers in the chair immediately behind not to prove an inconvenience to them. If the arrangement of the car-seats, as described, should be thought to limit the view of the passengers, the spaces B could be provided with glass, as shown in dotted lines, and thereby represent a closed window.

I claim as my invention—

As an improvement in railroad-cars, the seats or chairs placed in a fixed position transversely of the car, and with their backs practically in the center of the windows, substantially as and for the purpose specified.

WILLIAM H. H. YOUNG.

Witnesses:

ED. J. DIGGS,

WM. T. HOWARD.