

(No Model.)

E. L. PERRY.
VESTIBULE FOR CARS.

No. 503,160.

Patented Aug. 15, 1893.

Fig. 1.

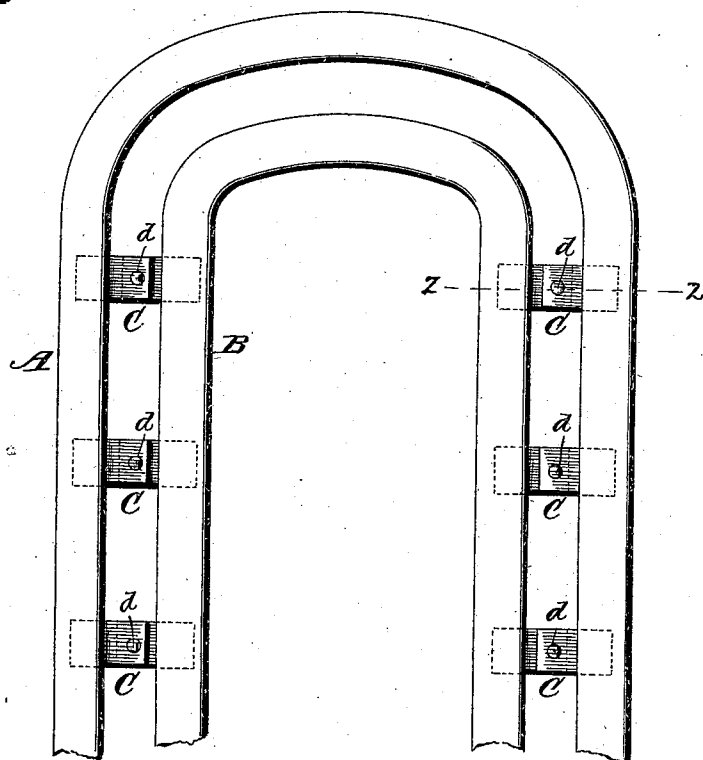
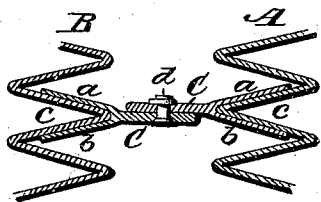


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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VESTIBULE FOR CARS.

SPECIFICATION forming part of Letters Patent No. 503,160, dated August 15, 1893.

Application filed May 3, 1893. Serial No. 472,838. (No model.)

To all whom it may concern:

Be it known that I, EDWARD L. PERRY, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Bellows-Fold Couplings for Car-Vestibules; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to bellows-fold couplings for car vestibules and the purpose thereof is to improve the construction whereby their value will be materially enhanced. This class of couplings is open to serious objection in that when the train turns sharp curves, the sides of the coupling are liable to bulge out and when the train straightens, the sides do not readily go back to place.

It is the object of the invention to remedy this defect which object I attain by the construction substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings represents a front view of a bellows fold coupling embodying my invention; Fig. 2 a horizontal section thereof taken on line *xx* of Fig. 1.

In the accompanying drawings A represents the outside diaphragm and B the inside diaphragm of the usual bellows-fold coupling, which diaphragms are connected together by means of stays C. These stays have double flaps *a b* to embrace the fold *c* of the diaphragm as shown in Fig. 1 of the drawings and secured thereto in any desirable manner. The stays are used in pairs which overlap each

other and are fastened together by a rivet *d* or by any other convenient and well known means. The stays may be made a part of the diaphragm in their manufacture and when the stays of one diaphragm are connected to the stays of the other diaphragm by means of rivets or otherwise, prevent the diaphragm from bulging outward. The stays may be of any suitable construction and connected together and to the diaphragms in any suitable and well known manner, and any number of the stays may be used as found most desirable, or necessary to prevent the folds on the sides of the diaphragms from bulging outward.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bellows fold coupling, an outer and inner diaphragm and suitable stays connecting them together, substantially as and for the purpose set forth.

2. In a bellows-fold coupling, the combination with the outer and inner diaphragms thereof, of suitable stays thereon which are connected together by rivets or other suitable means, substantially as and for the purpose described.

3. A stay for connecting the outer and inner diaphragms of a bellows-fold coupling, having double flaps to embrace the sides of the folds, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD L. PERRY.

Witnesses:

ARTHUR E. SCHUMAN,
W. G. WINANS.