

B. F. MANIER.  
Sleeping-Car Berth.

No. 113,539.

Patented April 11, 1871.

Fig: 1.

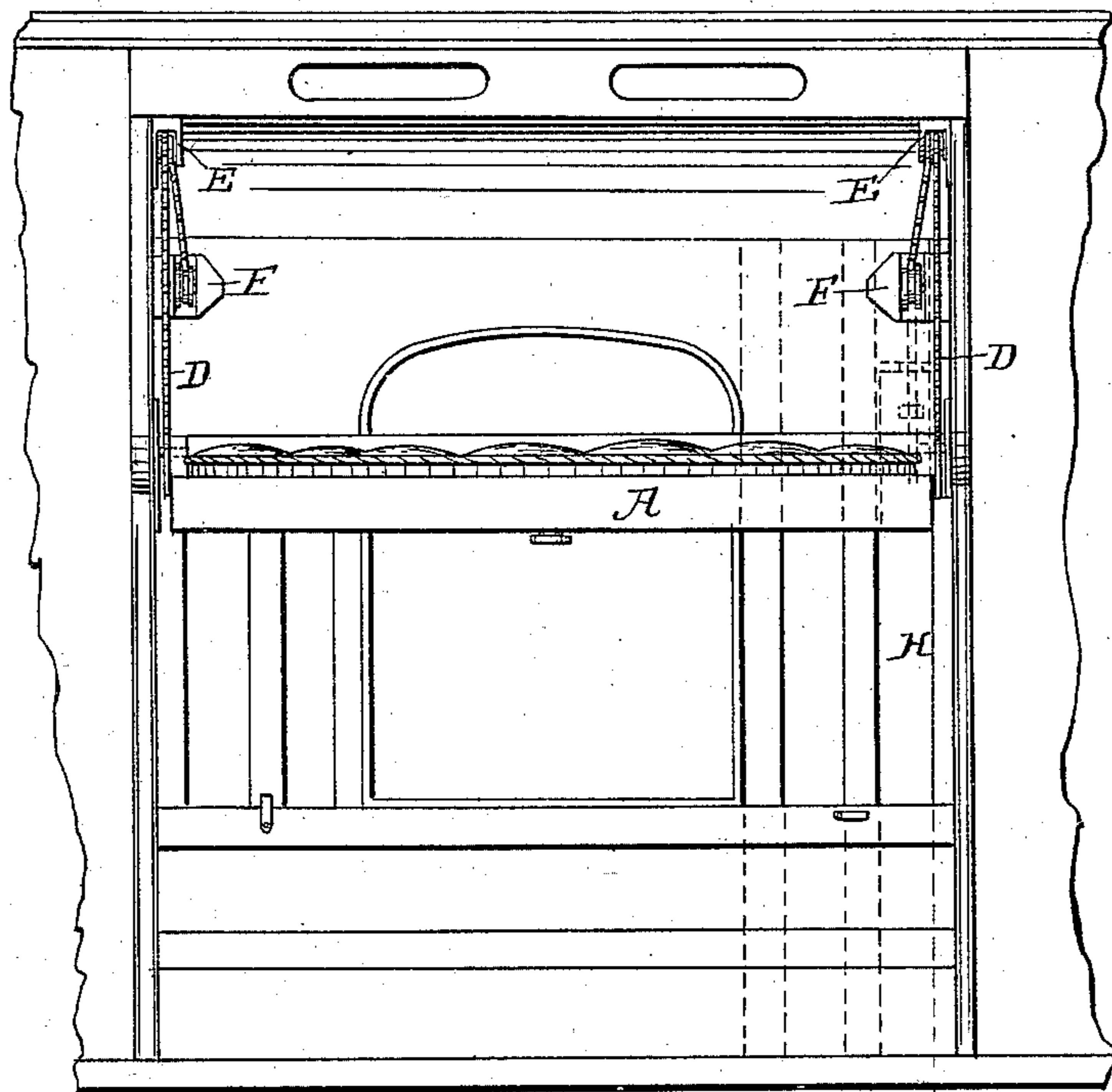
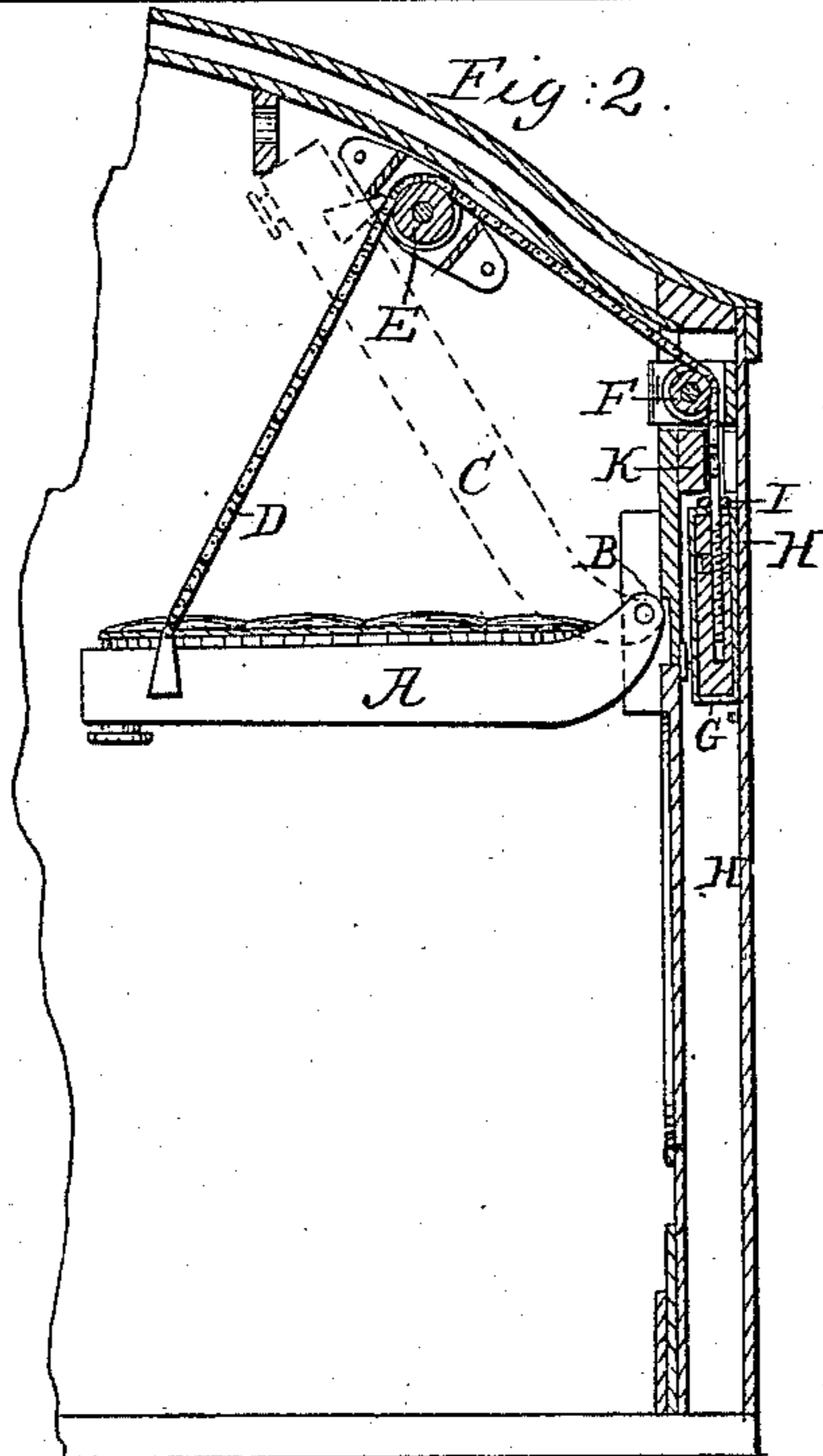


Fig: 2.



Witnesses.  
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# United States Patent Office.

BENJAMIN F. MANIER, OF GREEN ISLAND, NEW YORK, ASSIGNOR TO  
HIMSELF AND THOMAS R. SMITH, OF SAME PLACE.

Letters Patent No. 113,539, dated April 11, 1871.

## IMPROVEMENT IN BERTHS FOR SLEEPING-CARS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. MANIER, of Green Island, in the county of Albany, and State of New York, have invented a new and useful Improvement in Sleeping-Cars; and I do hereby declare that the following is a full, clear, and exact description thereof which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention consists in certain improvements in sleeping-cars, which will first be described in connection with all that is necessary to a full understanding thereof, and then clearly pointed out in the claim.

Figure 1 is a sectional elevation of a part of a car, showing a front elevation of a berth arranged according to my improvements; and

Figure 2 is a transverse section through the car and end elevation of the berth.

Similar letters of reference indicate corresponding parts.

A is the frame of the berth, which is hinged or pivoted to the side of the car at B, in the ordinary way, to swing up against the top of the car, as indicated by dotted lines O when not in use.

D represents a machine-chain attached to the frame A, near the outer edge, and working over the guide-pulleys F F, suitably arranged to hold the chain in the proper position to close the berth up against the top of the car, when required, by the aid of a weight, G, suspended from the chain in the vertical space H, between the outer and inner walls of the car side.

Two of these chains or ropes and weights are used to each berth, one at each end.

The chains are attached to the weights by an adjusting screw, H, and nut, or other adjusting devices,

for adjusting the lengths to equalize the two, so that they will take an equal weight of the berth; also for adjusting the height of the latter.

When the berth is swung down the weights are arrested by stops K, and thereby the berths are held in the position required for use.

I propose to place elastic springs or cushions I either on the tops of the weights or the under sides of the stops K, by which they are arrested for softening the shocks of the weights when suddenly forced up against the said stops, and I propose to cover the weights with soft material to make them as noiseless as possible when working along the sides of the chamber in which they work.

This arrangement is not so expensive as that in which the jointed braces are used, as has been heretofore done, and it is much more durable and convenient, requiring less labor in opening and closing the berth. It also obviates the necessity for fastenings to hold the berth up, as before.

The braces heretofore used are very liable to be bent by the persons sleeping in the berths pressing their feet against them, and when bent they cannot be operated.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The adjustable attachment of the weights to the chains by means of the adjusting screw and nut, substantially as specified.

2. The arrangement, with the weights or the stops K, of the cushions I, substantially as specified.

BENJ. F. MANIER.

Witnesses:

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