

C. H. COX.
Car-Truck.

No. 167,307.

Patented Aug. 31, 1875.

Fig. 1.

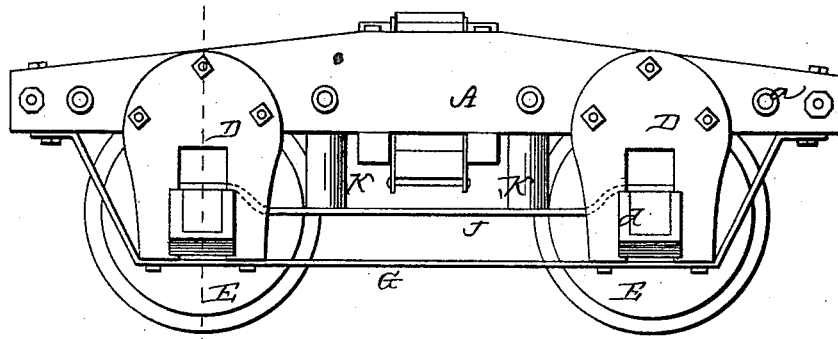


Fig. 2.

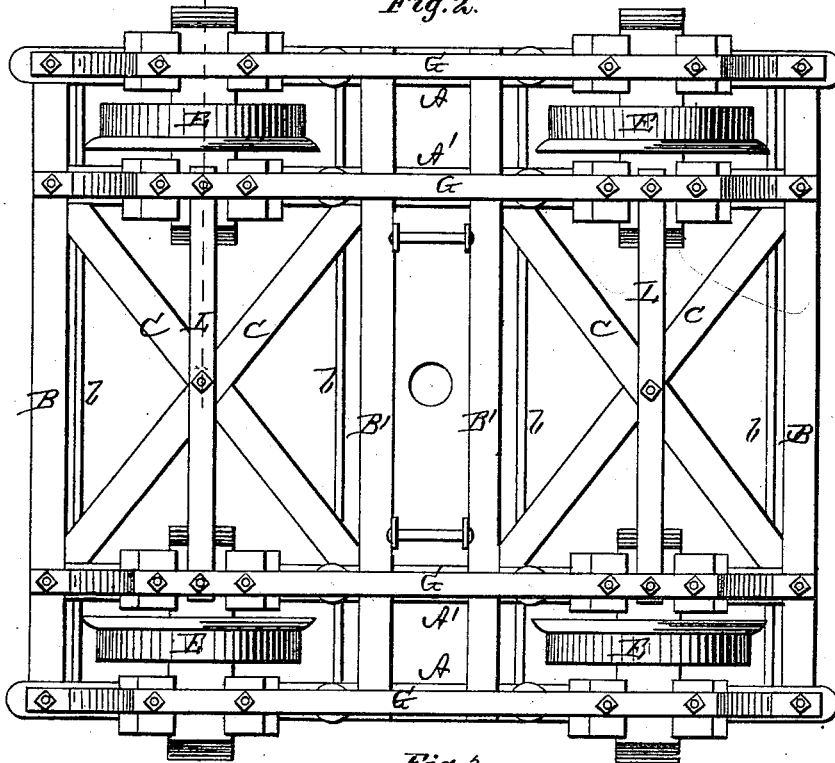
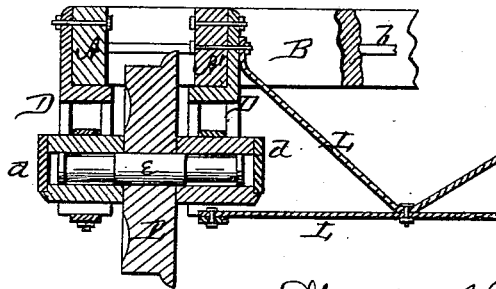


Fig. 3.



WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

CHARLES H. COX, OF RICHMOND, VIRGINIA, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JOSIAH I. MARTIN, OF SAME PLACE.

IMPROVEMENT IN CAR-TRUCKS.

Specification forming part of Letters Patent No. **167,307**, dated August 31, 1875; application filed
August 14, 1875.

To all whom it may concern:

Be it known that I, CHARLES H. COX, of Richmond, in the county of Henrico and in the State of Virginia, have invented certain new and useful Improvements in Car-Trucks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a car-truck, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of my improved car-truck. Fig. 2 is a bottom view of the same. Fig. 3 is a section through one of the wheels and axles.

The frame of my car-truck is composed of two parallel side beams, A A, connected by end beams B B. Inside of this frame, a suitable distance from each side beam, is a beam, A', and in the center of the frame are two parallel beams, B' B', running parallel with the end beams B. In the spaces formed by the interior beams A' B' and the end beams B are cross-braces C C; and the frame is further strengthened by means of rods *b b* passing through the frame and provided with nuts *a a* on their ends. To the beams A and A' are

fastened the hangers D D arranged in pairs, and having the journal-boxes *d d* placed therein. E E represent the ordinary car-wheels, each of which is secured on a short axle, *e*, placed in the journal-boxes *d*. Under the ends of the hangers D are strap-irons G G secured to the hangers that are on a line with each other, and the ends of said irons are carried upward and fastened to the beams of the main frame. On top of the journal-boxes *d*, both on the inside and outside of the wheels, is an equalizing-bar, J, having upward bearing against springs K K, as shown in Fig. 1. L L are braces at each end of the truck, as shown in Fig. 3.

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

1. In a car-truck, the combination of the rectangular frame A B, interior beams A' A' and B' B', and cross-braces *c c*, as shown and described.

2. The combination of the hangers D, journal-boxes *d*, wheels E, with short axles *e*, strap-irons G, equalizing-bars J, and springs K, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 27th day of July, 1875.

CHARLES H. COX.

Witnesses:

C. M. ALEXANDER,
H. A. HALL.