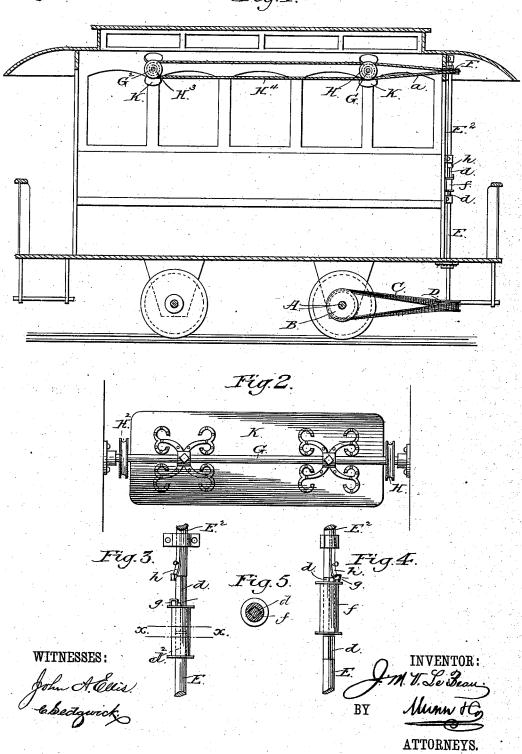
## J. M. V. LE BEAU.

FAN FOR CARS.

No. 382,818.

Patented May 15, 1888.





## UNITED STATES PATENT OFFICE.

## JEAN M. V. LE BEAU, OF NEW ORLEANS, LOUISIANA.

## FAN FOR CARS.

SPECIFICATION forming part of Letters Patent No. 382,818, dated May 15, 1888.

Application filed November 28, 1887. Serial No. 256,328. (No model.)

To all whom it may concern:

Be it known that I, JEAN M. V. LE BEAU, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and 5 Improved Fan for Cars, of which the following is a full, clear, and exact description.

The object of the present invention is to provide for street, railway, and other cars or vehicles a fan attachment operated under the 10 movement of the car, and capable of being made inoperative at will, which fan attachment is cheap, simple, effective, and not cumbersome; and the invention consists in the construction and combinations of the various 15 parts, all substantially as will hereinafter more fully appear, and be pointed out in the

Reference is to be had to the accompanying drawings, forming a part of this specification, 20 in which similar letters of reference indicate

corresponding parts in all the figures.

Figure 1 is a vertical longitudinal section through a car near one side, showing in elevation the parts of the present invention as ap-25 plied on the car. Fig. 2 is a plan view of one of the fans. Fig. 3 is a view in detail at the front of the portion of the apparatus for connecting the fan-carriers with the driving means, such parts being shown as connected. 30 Fig. 4 is a similar view showing the shafts as disconnected. Fig. 5 is a cross section taken on either of the lines x x of Fig. 3.

To one wheel axle, A, of a car or other vehicle, is applied a pulley, B, which, by a belt, 35 C, drives a pulley, D, secured on a vertical shaft, E, having suitable bearings on one end of the car and adapted to be clutched with and unclutched from another shaft, E2, upon which is secured at its upper end a pulley, F. A horizontal shaft, G, transversely mounted at a suitable portion of the upper part of the car chamber, has at one end a pulley, H, by which, through a belt, a, from the pulley F, it is driven, and said horizontal shaft carries a 45 fan or arms, K. Another fan-shaft, as G<sup>2</sup>, is mounted in another part of the car-chamber, and has a pulley, H<sup>3</sup>, from which a belt, H<sup>4</sup>, extends to a pulley, H<sup>2</sup>, on the fan-shaft G.

The fan arms may be of any suitable or ap-50 proved form—such, for instance, as more or less that of a screw-propeller blade—and any number of such fans may be disposed at proper

positions and suitable intervals of the interior

car space, all similarly driven.

As particularly shown in Figs 3 and 4, the 55 connecting means between the shafts E E consists in a squared formation, as dd, of the adjacent ends of said shafts, upon which squared portions is placed a square apertured sliding sleeve, f, having at its upper end an eye, g, 60 adapted to engage a spring-hook, h, on the When said eye is so engaged, the sleeve will be held away from engagement with the squared portion of the shaft E, as seen in Fig. 4, and at such time the fans will 65 not be operated. On releasing the hook from the eye the sleeve will slide for a portion of its length to embrace the end portion of the other shaft, as seen in Figs. 1 and 3, and the fans will be operated.

Other forms of connection between the shafts E E2 may, if desired, be employed, it not being intended to limit the invention in

this regard.

Having thus described my invention, what I 75 claim as new, and desire to secure by Letters

Patent, is-

1. The combination, with the axle and a horizontal shaft in a vehicle chamber carrying a fan, of a two part vertical shaft, a 8c clutch-connection between said parts, and connections, such as described, between said axle and shafts, substantially as and for the purpose described.

2. The combination, with the axle of a ve- 85 hicle provided with a pulley, B, and a fan shaft in the car chamber having a pulley, H, of the vertical shafts E E2, having squared ends, the sleeve f, adjustable on said squared ends, the pulleys D F on said shafts, and the belts C a, 90

substantially as and for the purpose described.

3. The combination, with the axle A of a vehicle provided with a pulley, B, and a fanshaft in the vehicle chamber having a pulley, H, of the vertical shafts E E2, having squared 95 ends, the sleeve f, provided with the eye g, adjustable on said squared ends, the hook h on the shaft E<sup>2</sup>, and the belts C a, substantially as shown and described.

JEAN M. V. LE BEAU.

Witnesses: HYPOLITE GANOT, Bus. Pauen.