

No. 827,687.

PATENTED JULY 31, 1906.

H. DUCASSE.
ELECTRICALLY OPERATED VEHICLE.

APPLICATION FILED FEB. 15, 1906.

Fig. 1.

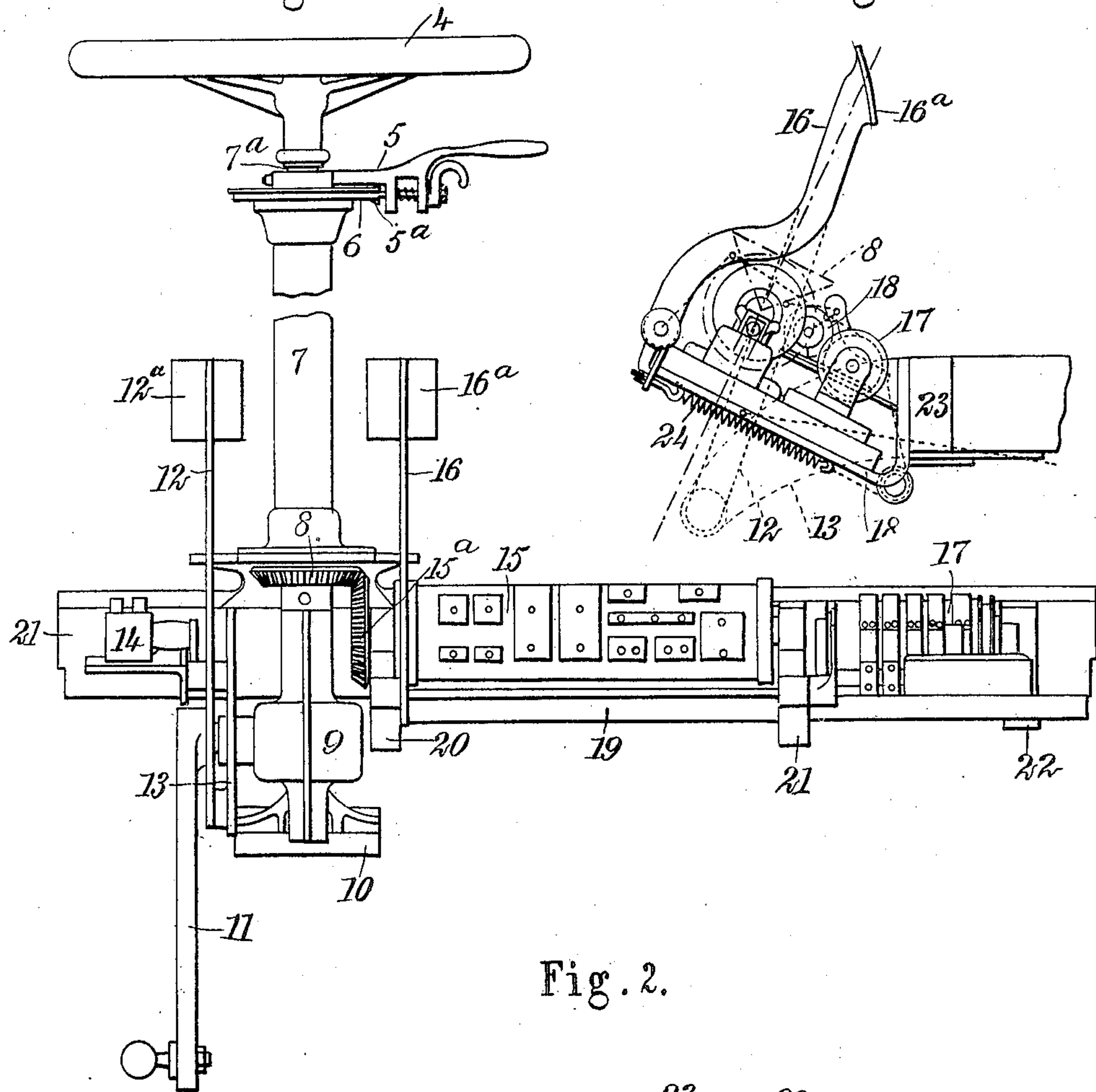


Fig. 3.

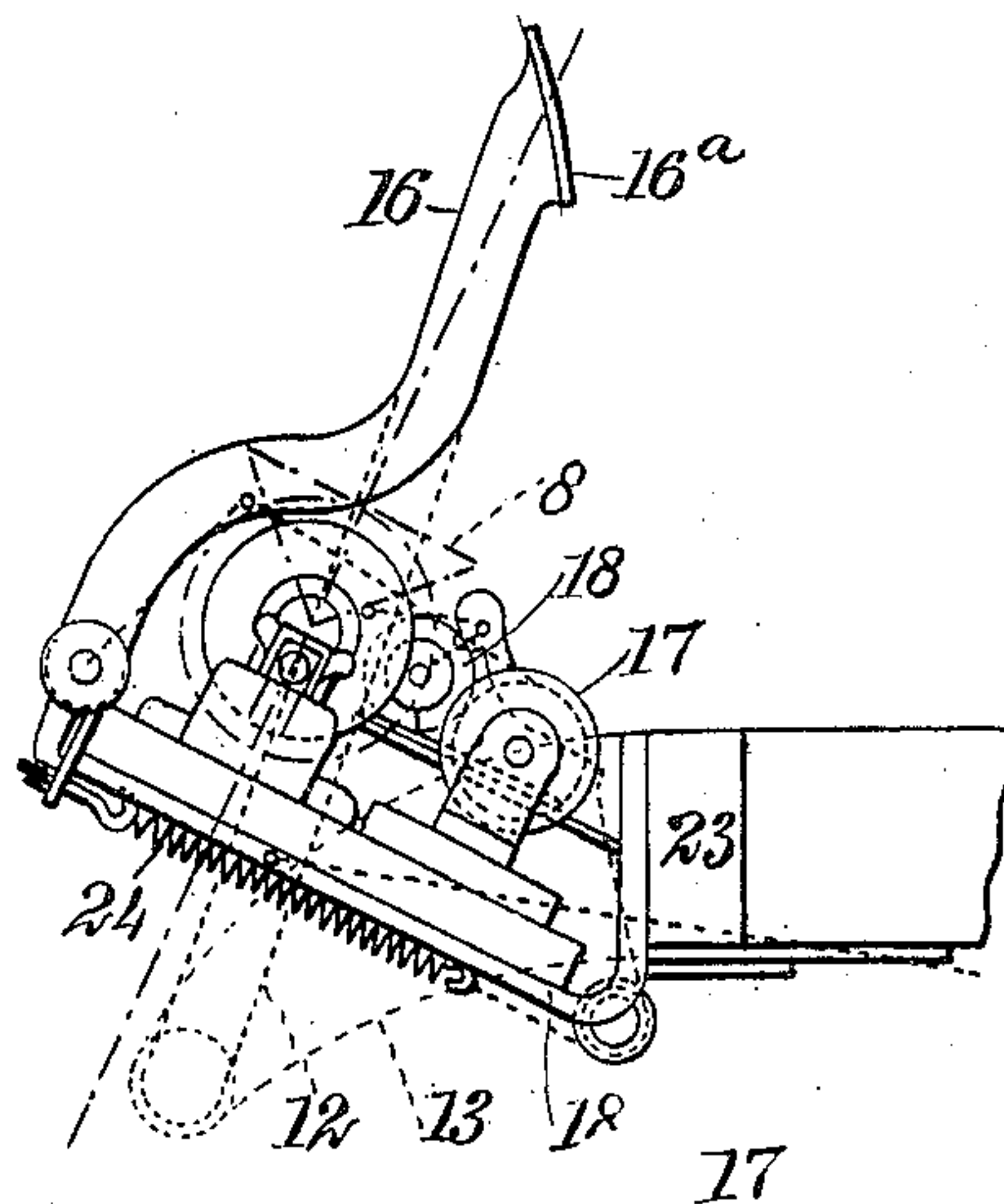
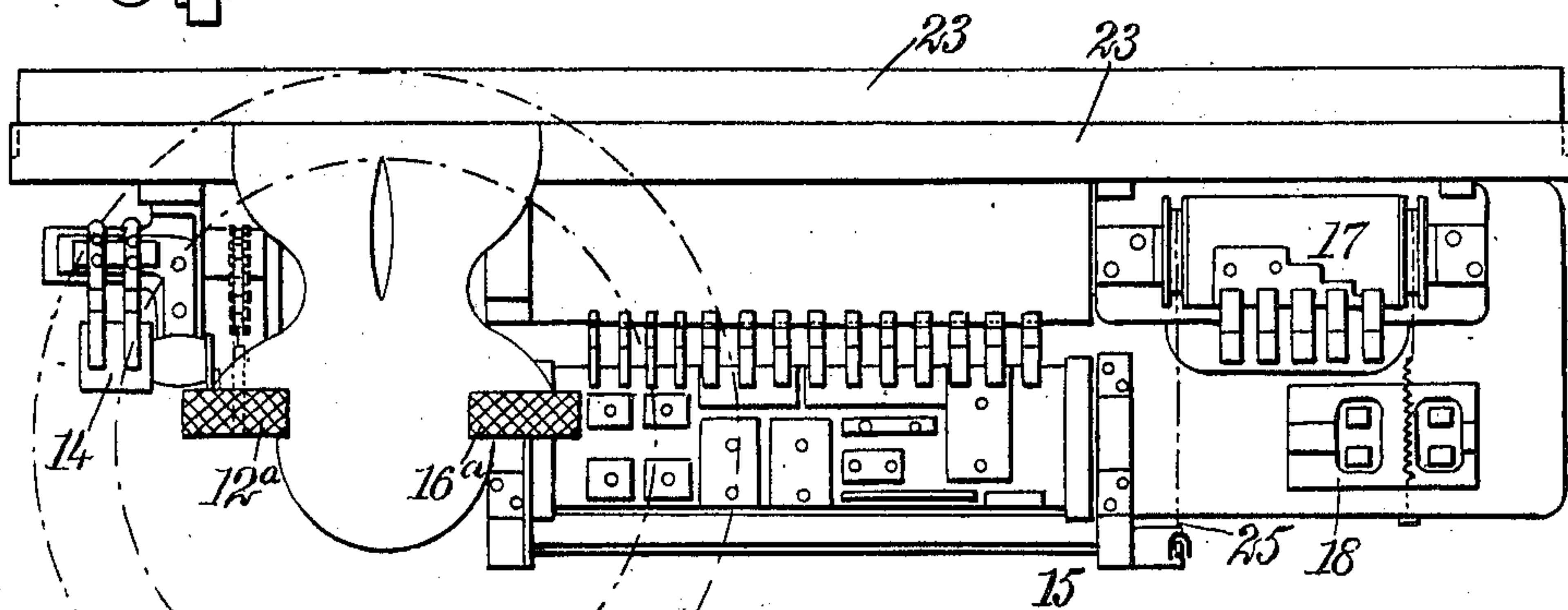


Fig. 2.



WITNESSES:

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HENRY DUCASSE, OF PARIS, FRANCE, ASSIGNOR TO SOCIÉTÉ ANONYME
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ELECTRICALLY-OPERATED VEHICLE.

No. 827,687.

Specification of Letters Patent.

Patented July 31, 1906.

Original application filed December 31, 1904, Serial No. 239,137. Divided and this application filed February 15, 1906. Serial No. 301,180.

To all whom it may concern:

Be it known that I, HENRY DUCASSE, a citizen of the Republic of France, and a resident of Paris, France, have invented a new and Improved Electrically-Operated Vehicle, of which the following is a full, clear, and exact description, this being a division of my application for Letters Patent for an electrically-propelled road-vehicle, Serial No. 239,137, filed December 31, 1904.

My invention relates to an electrically-operated vehicle, and more particularly to the means for supporting the controlling mechanism and other parts related thereto. To this end my invention comprises a cross-bar extending from one side to the other of the vehicle-frame and carrying the entire group of parts to be thus supported.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a fragmentary front elevation of the supporting-bar and the several parts mounted thereupon. Fig. 2 is a fragmentary plan view of the same; and Fig. 3 is a fragmentary side elevation showing the manner of mounting the pedals, the spring mechanism for retracting the same, and the various other movable parts.

The steering-wheel is shown at 4, and at 5 is the handle provided with the catch 5^a.

The commutator-plate is shown at 6, and at 7 is a fixed tubular member inclosing a steering-rod 7^a; which is controlled by the steering-wheel 4.

At 8 is a bevel-gear connected rigidly with the steering-rod 7^a.

At 9 is shown a device for preventing reversal of the steering-rod 7^a.

At 10 is shown a support for the member 9 and other parts related thereto. A rod 11 is used for controlling the steering mechanism.

A treadle-lever 12 is provided with a treadle 12^a and is used for operating the brake and cut-out mechanism. The support for this treadle mechanism is shown at 13.

A cut-out is shown at 14 and the controller-cylinder at 15.

A starting-pedal is shown at 16, a starting-cylinder is shown at 17, a switch for opening the circuit is shown at 18, a distributing-plate at 19, and the supports for the distributing-plates at 20, 21, and 22.

A supporting cross-arm is shown at 23 and is of sufficient strength to bear the weight of the several parts to be supported. A spring 24 is connected with the treadle-lever 12 for the purpose of retracting same to its normal position. A chain 25 controls the starting-cylinder 17 and is in operative communication with the starting-pedal 16.

Generally speaking, the construction and operation of the movable parts above enumerated have heretofore been used.

My invention relates merely to the aggroupment of these parts upon the supporting cross-arm 23 in such manner as to render the same independent of the body or frame of the vehicle.

From the foregoing description it will be understood that all of the controlling and distributing mechanism being mounted upon a cross-bar are so grouped and assembled at a single point and within a comparatively small space as virtually to constitute a unitary part or member which is absolutely distinct from and independent of the vehicle-frame.

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

In an electric vehicle the combination of a cross-bar, a steering-wheel, a commutator, starting mechanism, and a lever for operating said mechanism, said last-named members all being mounted upon a cross-bar and grouped together as a unit.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY DUCASSE.

Witnesses:

HANSON C. COXE,
MAURICE H. PIGNET.