

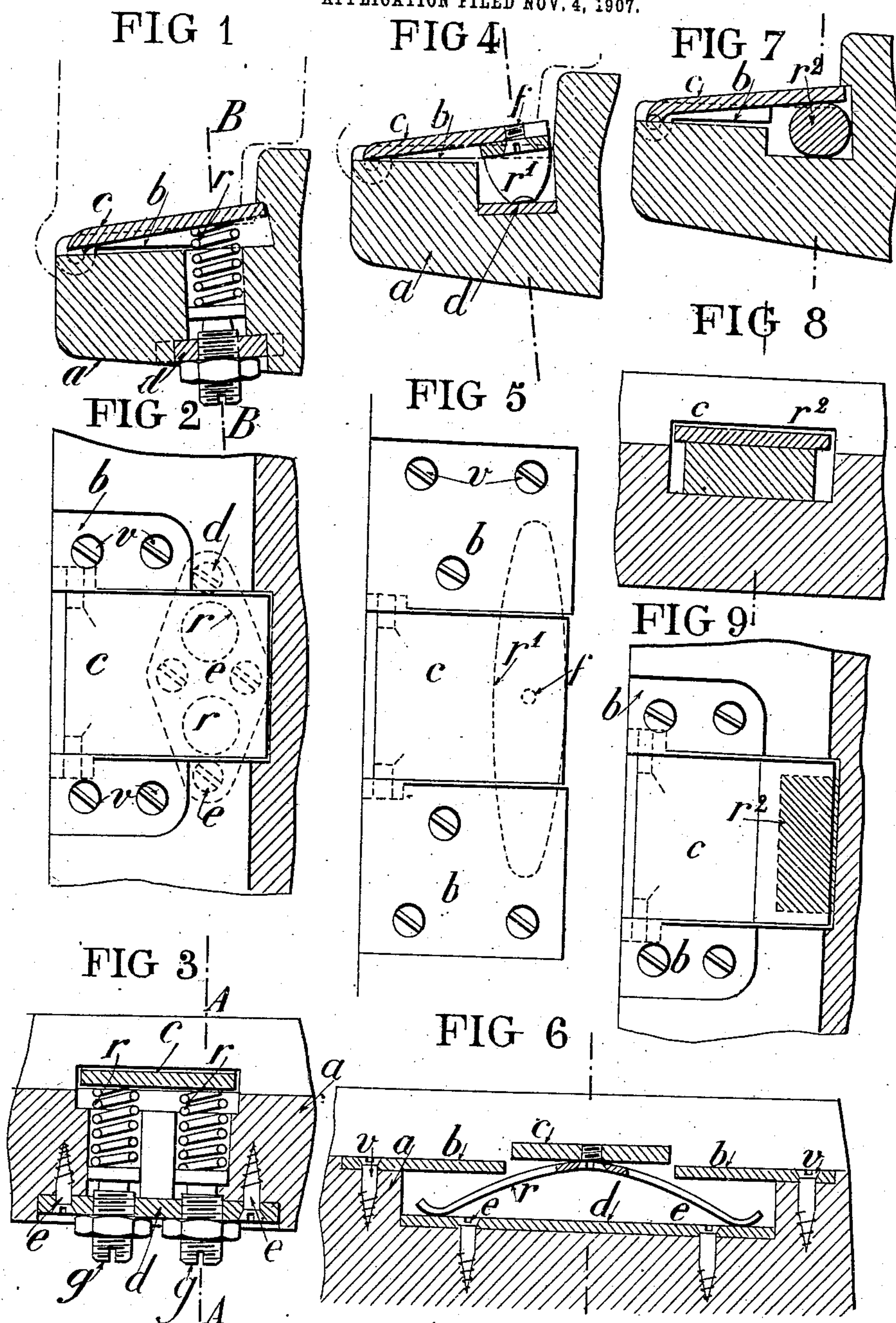
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F. CHARRON.

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ELASTIC SECURING DEVICE FOR DOORS OF AUTOMOBILES AND OTHER VEHICLES.

APPLICATION FILED NOV. 4, 1907.



WITNESSES.

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ELASTIC SECURING DEVICE FOR DOORS OF AUTOMOBILES AND OTHER VEHICLES.

No. 883,938.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed November 4, 1907. Serial No. 400,585.

To all whom it may concern:

Be it known that I, FERDINAND CHARRON, citizen of France, residing at 7 Rue Ampère, Puteaux, Seine, France, have invented new and useful Improvements in Elastic Securing Devices for Doors of Automobile and other Vehicles, of which the following is a specification.

One of the great drawbacks of automobile vehicles is the rapid deterioration of the car bodies, and especially of the doors, by the trepidation.

This invention has for its object a very simple device for elastically securing the doors of broughams, limousines and other closed motor-cars, and also the lateral doors of open carriages.

This device allows, by the use of elastic means under conditions which will be indicated hereinafter, of preventing all shocks of the doors against the body while traveling, and of totally obviating noise.

This device is besides applicable to all kinds of carriages.

In the annexed drawing: Figures 1 to 3 represent a form of execution of the device, Fig. 1 being a section on A—A of Fig. 3, Fig. 2 being a plan view, and Fig. 3 a section on B—B of Fig. 1. Figs. 4 to 6 show views, corresponding to those of Figs. 1 to 3, of a modified form of the device. Figs. 7 to 9 show like views of a further modified form of the device.

Referring to Figs. 1 to 6 of the drawing, it will be seen that on the body *a* of the car there is fixed in the frame of the door a metal plate *b* fixed to the wood by means of screws *v*. This plate is interrupted at its middle and the missing part is replaced by a pivoted plate *c*. On the other hand a second plate *d* is fixed by means of screws *e* in the thickness of the wood parallel to the plate *b* in such a manner, that between this second fixed plate *d* and the movable plate *c* one can interpose helical springs *r*, *r*, as shown in Figs. 1 to 3, or plate springs *r*¹, as shown in Figs. 4 to 6.

In the case of the helical springs *r* one can use screw-threaded gudgeons *g* engaging the plate *d* to regulate the tension of said springs.

In the case of the plate spring *r*¹ the spring will preferably be fixed at its center to the plate *c*, by means of a screw *f*.

In the form illustrated by Figs. 7 to 9, the springs are replaced by a small india-rubber buffer *r*². In this case the plate *d* shown in Figs. 1 to 6 may be dispensed with.

It will be understood that in closing, the door bears on the plate *c* in such a manner as to move it into the same plane as the plate *b*, so that the elastic means *r*, *r*¹, or *r*², are compressed and the door elastically secured.

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

1. An elastic securing device for doors of automobile and other vehicles comprising a metal plate fixed on the body of the car in the frame of the door and interrupted at its middle part, a movable plate pivoted to the fixed plate and arranged in the missing part of said fixed plate and moving in a plane at right angles to the fixed plate, and elastic means arranged in the thickness of the wood of the door frame opposite the movable plate, substantially as described and for the purpose set forth.

2. An elastic securing device for doors of automobile and other vehicles comprising a metal plate fixed on the body of the car in the frame of the door and interrupted at its middle part, a movable plate pivoted to the fixed plate and arranged in the missing part of said fixed plate, a second fixed plate secured in the thickness of the wood of the door frame opposite the first plate and parallel thereto, screw-threaded gudgeons engaging the second fixed plate, and elastic means arranged between the movable plate and the gudgeons, substantially as described and for the purpose set forth.

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

FERDINAND CHARRON.

Witnesses:

ANTOINE LAVAIX,
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