

G. A. DE Vlieg.
CONCEALED HINGE.
APPLICATION FILED SEPT. 23, 1912.

1,046,999.

Patented Dec. 10, 1912.

2 SHEETS—SHEET 1.

Fig. 1

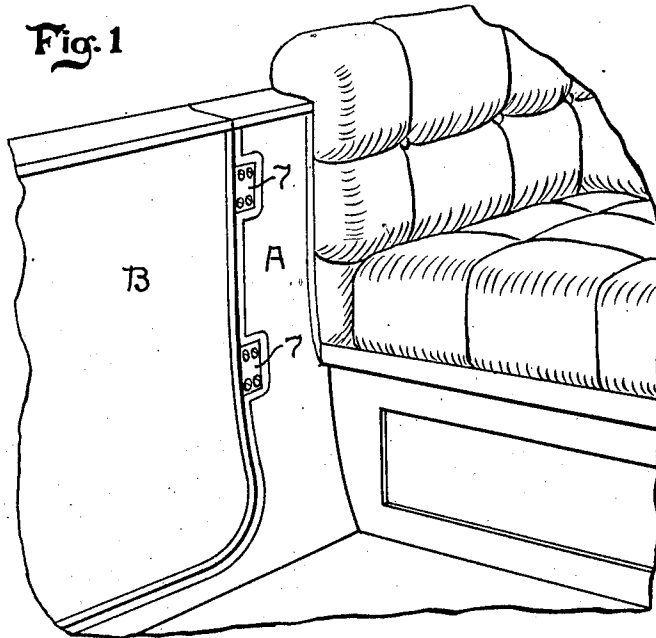
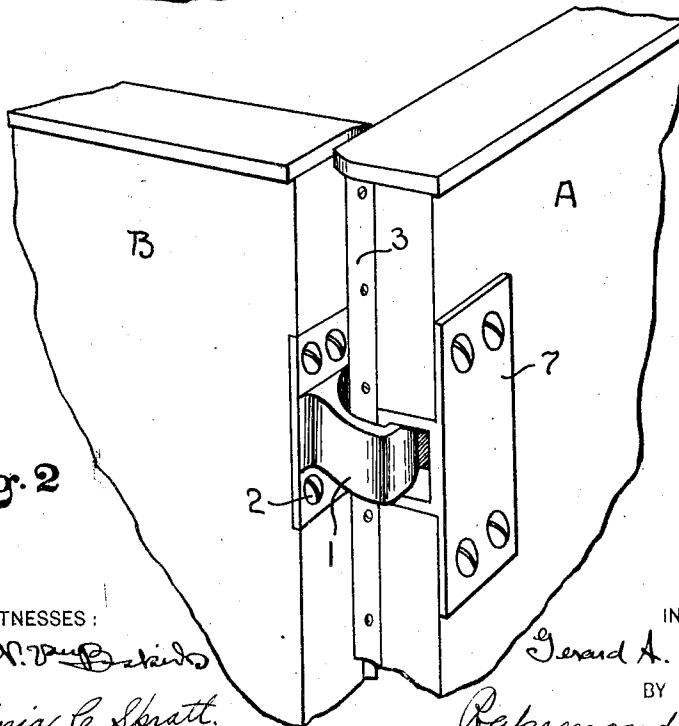


Fig. 2



WITNESSES:

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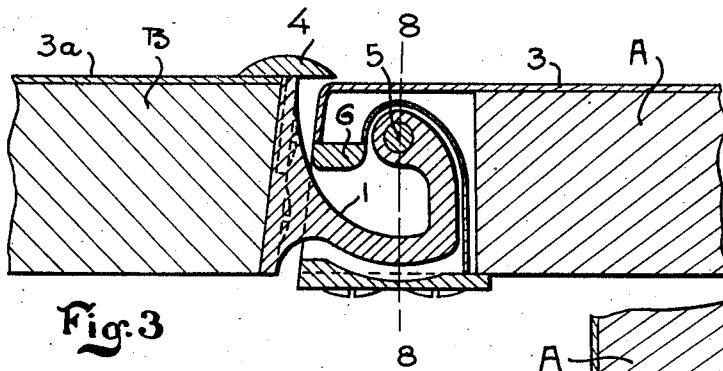


Fig. 3

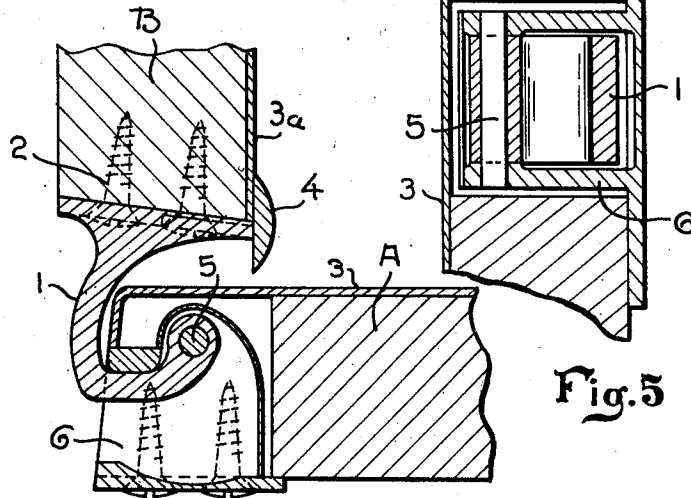


Fig. 5

Fig. 4

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UNITED STATES PATENT OFFICE.

GERARD A. DE VLIEG, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO CARL B. PARSONS, OF DETROIT, MICHIGAN.

CONCEALED HINGE.

1,046,999.

Specification of Letters Patent.

Patented Dec. 10, 1912.

Application filed September 23, 1912. Serial No. 721,775.

To all whom it may concern:

Be it known that I, GERARD A. DE VLIEG, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Concealed Hinges, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to concealed hinges and especially concealed hinges used in connection with automobile bodies.

It has for its object a new form of concealed hinge which is simpler in construction and by which the door may be accurately hung with greater facility.

In the drawings:—Figure 1, is a perspective of a portion of the interior of an automobile body, showing the door closed. Fig. 2, is a perspective of a portion of the interior of an automobile body, showing the door swung open. Fig. 3, is a cross section through a portion of the body and door and through the hinge showing the hinge in the position it assumes when the door is closed. Fig. 4, is a similar view, showing the hinge and door in the position they assume when the door opens. Fig. 5, is a section 8—8 of Fig. 3.

A, is the body of an automobile.

B is the door which is attached to a curved hinge arm 1, by screws 2. The body A is faced with metal 3 and the door B is also faced with metal 3^a. A strip 4, T-shaped in cross section, acts as a molding for the door and serves to overlap the spacing between the door B and the body A. It is, however, sufficiently spaced from the metal facing 3 to clear the same when the door swings open or closed. The curved hinge arm 1 swings upon the pins 5 which are attached to the hinge casing 6. This hinge

casing 6 is an integral part of the front plate 7 that is intended to be screwed into the interior side of the body when a proper mortise has been cut for the reception of the case 6. The purpose of this arrangement of having the face plate 7 screw into the interior side of the body is so that the hinge may be attached to the body when the door is closed and the screws driven into their proper places without a resetting. The hinge arm 1 may be attached to the door B by driving the screw 2 in. The door may then be lifted into the door frame of the body and the hinge case 6 forced into a mortise in the body that has been cut for its reception. When the parts are thus in place, the plate 7 may be pressed against the side of the body and the screws driven thereinto in the exact position necessary to hang the door properly. In the concealed hinges with which I am familiar it has been necessary to hang the door when it is open, which has often required the resetting of the screws and has required considerable trouble in getting the adjustment correct. It will also be noticed that the hinge case 6 and the front plate 7 are an integral piece requiring only a single casting and that the hinge arm 1 is a single piece attachable to the door B and connectible with the hinge case 6 by a single knuckle pin 5.

What I claim is:—

A concealed hinge, having in combination, a front plate adapted to be fastened to the inside of the body, a hinge case connected therewith and arranged to fit into a mortise of a body, and a curved hinge arm pivoted in the interior of the hinge case, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

GERARD A. DE VLIEG.

Witnesses:

VIRGINIA C. SPRATT,
C. B. PARSONS.