

(No Model.)

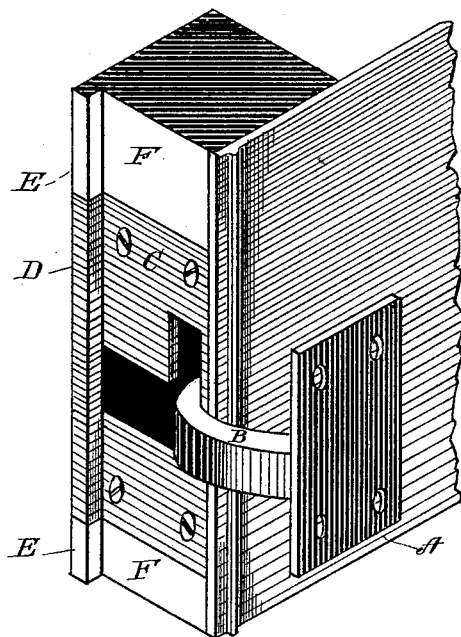
E. P. HINCKS & G. H. JOHNSON.

COACH HINGE.

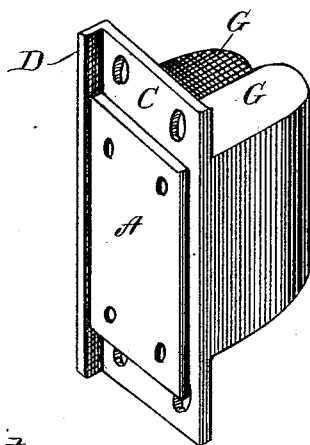
No. 348,212.

Patented Aug. 31, 1886.

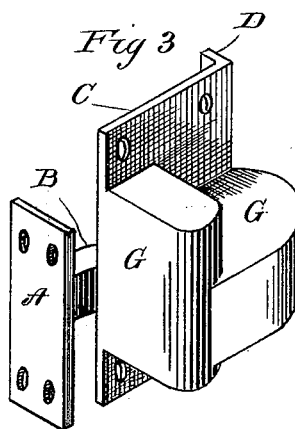
*Fig 1*



*Fig 2*



*Fig 3*



*Witnesses*

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# UNITED STATES PATENT OFFICE.

ENOCH P. HINCKS AND GEORGE H. JOHNSON, OF BRIDGEPORT, CONN.

## COACH-HINGE.

SPECIFICATION forming part of Letters Patent No. 348,212, dated August 31, 1886.

Application filed April 5, 1886. Serial No. 197,797. (No model.)

*To all whom it may concern:*

Be it known that we, ENOCH P. HINCKS and GEORGE H. JOHNSON, citizens of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Coach-Hinges; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to certain new and useful improvements in coach-hinges, but is more especially intended as an improvement upon the construction shown and described in the Letters Patent, No. 41,956 granted to Frederick Wood the 15th day of March, 1864; and the object of our improvement is to provide such a hinge as shall, when applied to a coach-door, effectually exclude water from entrance to the pillars to which the doors are hung, which latter has a tendency to rot the wood-work and to run down inside the coach-frame, thereby loosening the glue and throwing off moldings and panels; and with these ends in view our invention consists in the details of construction hereinafter explained and then recited in the claims.

In order that those skilled in the art to which our invention appertains may fully understand its construction and application, we will describe the same in detail, referring by letter to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective of our hinge properly attached to a short section of a coach-pillar; Fig. 2, a perspective of the hinge detached from the coach and closed, and Fig. 3 a perspective from the rear of the hinge.

Similar letters denote like parts in all the figures of the drawings.

The door-plate A, the curved arm B, secured by loose pin within the hinge, and the J-shaped opening in the face-plate C are all as in the patent to Wood, hereinbefore referred to, and consequently need no detailed description. Upon the inner edge of the face-plate and extending the whole length thereof is a water-way, D, at right angles to the face-plate and to the shape of this water-way the rabbet E, which is fashioned upon the coach-

pillar F, is conformed, as may be seen by reference to Fig. 1. Upon the rear side of the face-plate is secured or formed integral, as is our preferred construction, a box or housing, G, which entirely closes the back of the hinge, and into which the curved arm swings when the hinge is shut.

In attaching our hinge the coach-pillar is mortised to receive the box G, and the plate is let in flush with the pillar-surface, the water-way forming a continuation of the rabbet on the pillar, as seen in Fig. 1.

Prior to our invention where the hinge consisted merely of a face-plate and support for the hinge-arm, which swung into a mortise cut in the pillar, water, either from rain or a washing-hose, entered through the opening in the face-plate and rotted the pillar, and also, by running down inside the panels, dissolved the glue, thereby splitting out the joints and causing moldings to fall off. Furthermore, by the use of a flat face-plate of the full width of the pillar the rabbet was interrupted for the length of the hinge, and water and wind thereby given entrance to the coach.

By the use of our improvement the access of water to the pillar and wooden parts of the coach through the hinge is effectually prevented, since any water entering the hinges simply finds its way into the box, and no farther.

The water-way forming a continuation of the rabbet prevents the entrance of either water or wind to the interior of the coach.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a concealed hinge, the combination, with the face-plate, of a water-tight housing secured or formed upon the rear side thereof, said housing opening only through said face-plate, and adapted to contain the hinge-arm when the latter is in its closed position, substantially as set forth.

2. In combination with the door-pillar of a coach, a hinge provided upon the inner edge of its face-plate with an outwardly-projecting water-way or flange extending the entire length of said face-plate, and adapted when the hinge is in its applied position to form a section of the rabbet on the pillar, substantially as shown and described.

3. In a hinge, as described, the combination,  
with the face-plate, of an outwardly-project-  
ing water-way formed upon and extending the  
whole length of the inner edge thereof, and a  
5 water-tight box or housing secured at the  
back of the face-plate, and into which the  
hinge-arm is adapted to swing, substantially  
as and for the purpose specified.

In testimony whereof we affix our signatures  
in presence of two witnesses.

ENOCH P. HINCKS.  
GEORGE H. JOHNSON.

Witnesses:

S. H. HUBBARD,  
DAVID HENNEY.