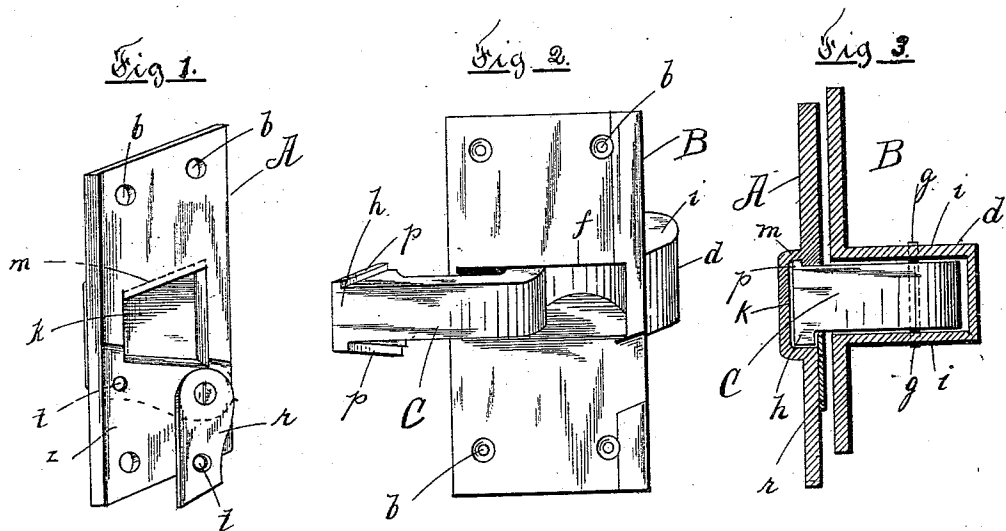


(No Model.)

L. RUEL.
COACH HINGE.

No. 424,504.

Patented Apr. 1, 1890.



Witnesses
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UNITED STATES PATENT OFFICE.

LAURENT RUEL, OF MERRIMAC, MASSACHUSETTS.

COACH-HINGE.

SPECIFICATION forming part of Letters Patent No. 424,504, dated April 1, 1890.

Application filed December 2, 1889. Serial No. 332,308. (No model.)

To all whom it may concern:

Be it known that I, LAURENT RUEL, of Merrimac, in the county of Essex, State of Massachusetts, have invented certain new and useful Improvements in Hinges for Carriage-Doors, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a perspective view of the door-leaf of this improved hinge. Fig. 2 represents a perspective view of the casing-leaf of the improved hinge and the hanger pivoted thereto. Fig. 3 represents a central vertical section of this improved hinge.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to hinges which are particularly adapted for use on carriage-doors; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A B represent the hinge-leaves, which are preferably rectangular in form and are provided with screw-holes *b* for attaching them to the door and casing, respectively.

The leaf B, which is applied to the door-frame or casing of the carriage, is provided with rearwardly-projecting plates *i*, which are preferably connected by side walls, forming a chamber *d*. This chamber opens through a slot *f* in said leaf, which constitutes the mouth of said chamber. The chamber protects the wood of the door-casing from the water used in washing the carriage and

prevents the swelling of the wood and the binding of the door. A hanger C is inserted in the chamber *d* and secured therein by a vertical pivot *g*, (see Fig. 2,) passing through the upper and lower walls *i* of said chamber at one side of the vertical center thereof.

The leaf A being secured to the door in the usual manner, said door is suspended by and swings freely on the hanger C, which is entirely concealed in the chamber *d* when the door is closed.

The hanger C is constructed separable from the leaf A and is provided with wedge-shaped dove-tail head *h*, said leaf A being provided with a central slot or chamber *k*, fitted to receive said head. One wall of the chamber *k* is dovetailed at *m* to receive a flange *p* on the head *h*, the opposite flange *p* being secured by a plate *r*, pivoted to the face of the leaf A and adapted to be secured over said flange by means of a screw passing through screw-holes *t*. By this construction the door can be more readily hung or detached than when the hanger is formed integral with the leaf.

Having thus explained my invention, what I claim is—

The combination of a leaf for attachment to a door-casing, provided with rearwardly-projecting plates and a slot between said plates, a hook-shaped hanger pivoted between said plates and projecting outward through the slot, said hanger being provided with a flanged head at its outer end, a leaf for attachment to a door provided with a slot for receiving the flanged head of said hanger, one flange of which engages the inner side of said leaf, a locking-plate pivoted to the face of said leaf and adapted to swing over the other flange of said head, and a fastening device for securing said pivoted plate in locking position.

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Witnesses:

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