J. R. Lomas,

Coach Hinge.

No. 53,637. Patented Apr. 3, 1866.

Fig: 1.

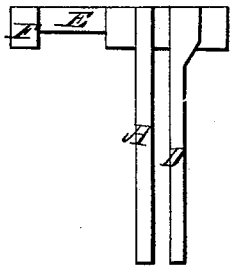


Fig: 2.

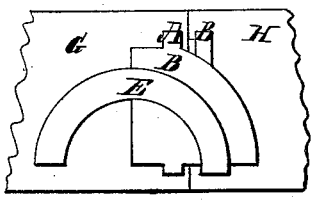


Fig: 3.

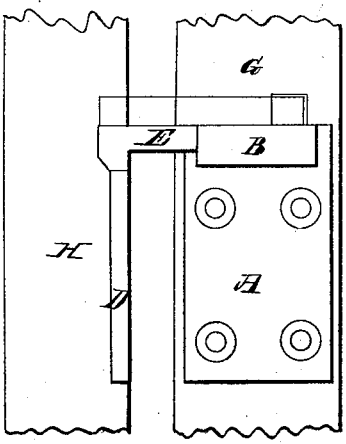


Fig: 4.

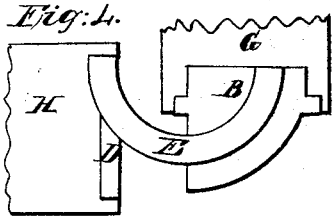


Fig: 5.

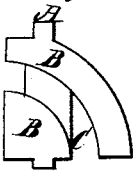


Fig: 7.

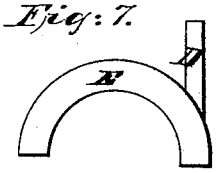


Fig: 6.

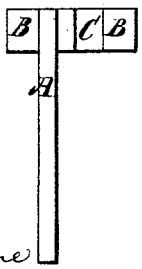
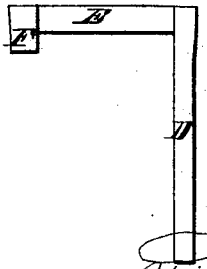


Fig: 8.



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John H. Shumway

Inventor:
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by his Atty
Wm. E. Earle

UNITED STATES PATENT OFFICE.

JOHN R. LOMAS, OF WEST HAVEN, CONNECTICUT.

IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. **53,637**, dated April 3, 1866.

To all whom it may concern:

Be it known that I, JOHN R. LOMAS, of West Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Concealed Hinges; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, an edge view of the hinge complete, (closed;) Fig. 2, a top view of the same; Fig. 3, an edge view opened; Fig. 4, a top view of the same; Fig. 5, a top view of the fixed part; Fig. 6, an edge view of the same; Fig. 7, a top view of the movable part, and in Fig. 8 an edge view of the same.

My invention is designed with special reference to hinges for carriage-doors, but may be used with equal facility for many other purposes where a concealed hinge is necessary.

To enable those skilled in the art to construct and apply my improvement, I will proceed to fully describe the same as illustrated in the accompanying drawings.

A is the fixed part, or the part to be secured to the post. It consists of a flat plate cast or wrought with a plate, B, upon its upper end, formed with a segmental groove, C. (See Figs. 5 and 6.

D is the other part of the hinge to be secured to the door, and is a plate similar to the plate A, having upon its upper end a segment, E, (see Figs. 7 and 8,) corresponding with the groove C on the plate B, and so that when the two are placed together, as in Figs. 1 and 2, the two faces of the plate will be parallel to each other. Upon the end of the segment E I make a projection, F, down (see Fig. 8) to prevent the segment from being drawn from the groove in the plate B.

To place the two parts together, as in Figs. 2 and 4, raise the part D above the part A, so that the projection F will pass over the plate B, then drop it so that the segment E will enter the groove C.

In Figs. 2, 3, and 4, red lines, G denotes the carriage-post; H, the door. Secure the part A to the post G, cutting away only enough to receive the said plate, and so as to permit the segment to be turned into the post, as seen in Fig. 2, the other part, D, fitted to the door H, and when thus fitted, each part in its proper place, place each segment E over its respective plate B, as denoted in blue, Fig. 2, a mortise being cut in the post to permit the segment to be thus placed, as denoted in red, Fig. 3. Then drop the door so that the segments will each enter their respective grooves, as denoted in black, Fig. 3, in which position the door may be closed, as in Fig. 2, or opened, as in Fig. 3, the projection F striking against the plate A to prevent the door opening only to a fixed given point.

If it is desired to remove the door, open the door, as seen in Fig. 4, then raise the segments from their respective grooves, as denoted in blue, Fig. 3, when the door may be removed.

By this construction the hinge is entirely concealed, and the post of the carriage but little cut, and the two parts are of such form that they may be cast so as to require very little if any fitting, and thus enable me to produce a hinge entirely concealed, and at no more cost than ordinary hinges, which, as I have before stated, is applicable to other uses than for that described.

Having, therefore, thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

A hinge constructed substantially as herein set forth.

JOHN R. LOMAS.

Witnesses:

JOHN E. EARLE,

M. A. HINE.