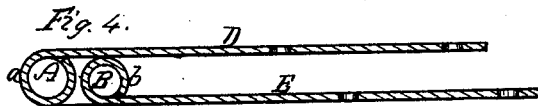
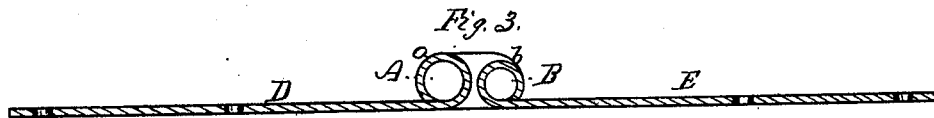
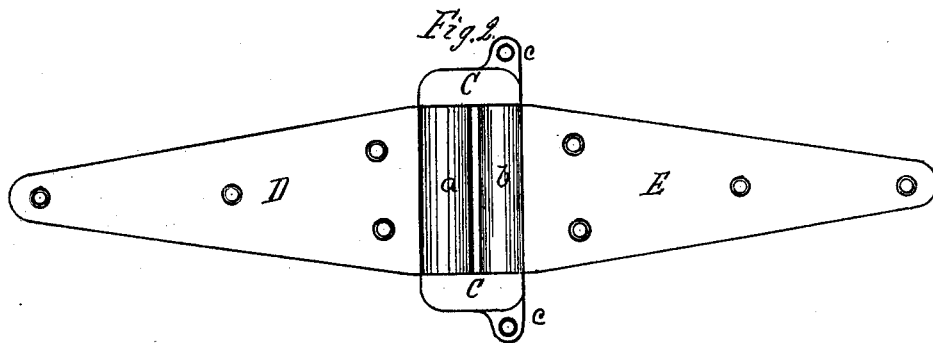
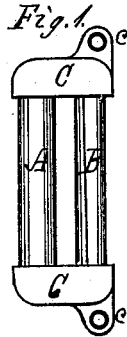


H. C. LEWIS.
Hinge.

No. 220,295.

Patented Oct. 7, 1879.



WITNESSES

J. C. Day
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INVENTOR,

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UNITED STATES PATENT OFFICE.

HOMER C. LEWIS, OF COLUMBUS, OHIO.

IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. **220,295**, dated October 7, 1879; application filed March 24, 1879.

To all whom it may concern:

Be it known that I, HOMER C. LEWIS, of Columbus, in the county of Franklin and State of Ohio, have invented an Improved Hinge; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a side or front view of the pintle-frame, showing the two pins thereof; Fig. 2, a front view of a complete strap-hinge spread out as constructed with my improvements; Fig. 3, a longitudinal section of the hinge as in Fig. 2; Fig. 4, a longitudinal section of the hinge when one leaf is folded back over the other.

Like letters designate corresponding parts in all of the figures.

My invention consists in a double-pin pintle-frame with connecting shoulders, flanges, or heads, all cast in one piece, in combination with the leaves or webs of a hinge attached to the respective pins, and also in special additional features in the construction of the pintle-frame, as hereinafter specified.

The pintle-frame is composed of two pins, A B, and two shouldered heads or flanges, C C, connecting the same, all preferably cast in one piece of metal. Around the two pins A B the ends *a b* of the two hinge-leaves D E are respectively bent, as shown, the joint of each being formed of the entire width of the leaf, thereby securing the utmost strength of hinge. The projection of the shoulders of the heads or flanges C C should properly be equal, or thereabout, to the thickness of the metal composing the leaves D E, so that the parts of the complete hinge may be flush and smooth, as far as practicable.

The pin A, around which the movable leaf D turns, is larger in diameter than the pin B of the stationary leaf E, the difference of the diameters preferably being equal to the thick-

ness of the metal of the leaves, or thereabout, so that the leaf D may fully and freely fold back over the leaf E, as shown in Fig. 4; and the arrangement of the pins should be such that their rear tangents shall be equidistant from the back side of the heads C C, the said sides being flat, so as to fit steadily and securely against the jamb or part to which they are attached. This arrangement of the pins throws the difference of their diameters all to the front side, as shown.

The pintle-frame is designed to be stationary against the jamb or adjacent post; and, in order to keep it firmly in place and avoid the necessity of making the pin B angular or of other form to prevent its turning in the leaf E, I provide the pintle-frame with ears or flanges *c c*, substantially as shown, each having a screw-hole, by which the pintle-frame, as well as the strap or leaf D, is secured to the jamb or other adjacent part.

The whole construction makes a very strong, durable, and cheap hinge.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a hinge, a pintle-frame having the pin A of the movable leaf D of larger diameter than the pin B of the stationary leaf E, for the purpose of allowing the movable leaf to fold closely back upon the stationary leaf, substantially as herein specified.

2. In a hinge, a pintle-frame formed of two pins, A B, and connecting-head C C, and having screw ears or flanges *c c* for securing it to the jamb or other adjacent part to which the hinge is attached, substantially as and for the purpose herein specified.

The foregoing specification signed by me this 22d day of March, 1879.

HOMER C. LEWIS.

Witnesses:

GEORGE J. ATKINSON,
G. G. COLLINS.