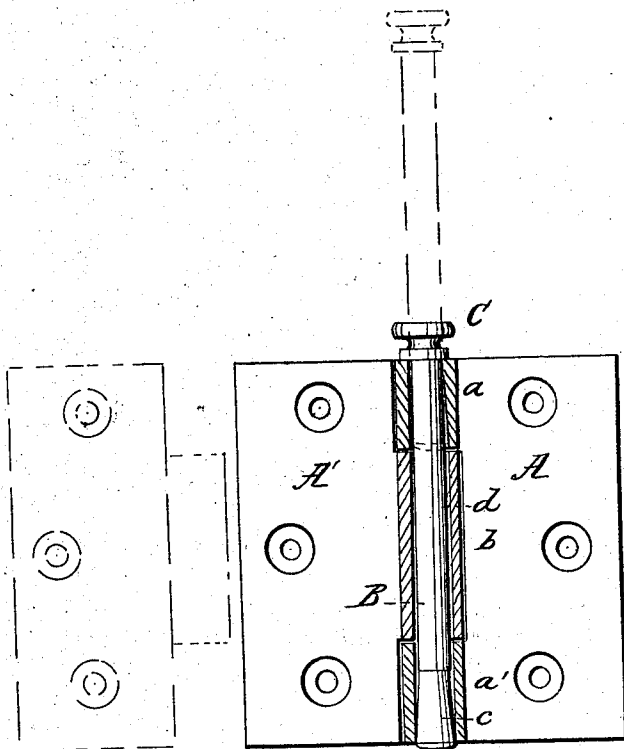


Maschauer & Frankfurth,

Hinge.

N^o 83,393.

Patented Oct. 27, 1868



Witnesses:

Wm. A. Morgan
G. C. Cotton

Inventor

L. Maschauer
H. Frankfurth
per Wm. A. Morgan
Attorney



LORENZ MASCHAUER AND WILLIAM FRANKFURTH, OF MILWAUKEE, WISCONSIN.

Letters Patent No. 83,393, dated October 27, 1868.

IMPROVEMENT IN PINTLE OF BUTT-HINGE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, LORENZ MASCHAUER and WILLIAM FRANKFURTH, of Milwaukee, in the county of Milwaukee, and State of Wisconsin, have invented a new and useful Improvement in Butt-Hinges; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which the drawing represents a view of a butt-hinge in an open state, partly in section, and constructed in accordance with our invention.

Similar letters of reference indicate like parts.

This invention relates to a new and useful improvement in the construction of the pintle and eyes of the leaves of butt-hinges, whereby a door, shutter, or gate may be unhung without unscrewing either leaf of the butts.

The invention consists in a peculiar construction of the pintle and eyes of the leaves of the butt, whereby the pintle cannot be wholly withdrawn from the butt, and lost or mislaid, but still drawn out sufficiently far to admit of one leaf of the butt being detached from the other.

A A' represent the leaves of a butt-hinge, one leaf, A, being provided with two eyes, *a a'*, at its inner edge, and the other leaf, A', provided with an eye, *b*, at its inner edge, to fit between the eyes *a a'*, this arrangement being precisely the same as that of an ordinary butt-hinge.

B is the pintle, which passes through the three eyes, *a*, *a'*, and *b*. This pintle is formed in a peculiar manner, its lower end, *c*, being expanded or made larger in diameter than the main portion, *d*, the latter being of equal diameter throughout.

The internal diameter of the eye, *b*, of the leaf A', and the lower eye, *a'*, of the leaf A, are equal and sufficiently large to admit of the enlarged end, *c*, of the pintle being drawn through them; but the internal diameter of the eye *a* of leaf A is made tapering, the diameter of its upper part being equal to that of the main part, *b*, of the pintle, and the lower part is recessed out, so that *c* may be drawn within *a*, when the pintle is fully raised, but not allowed to pass through it, the internal chamber of the upper part of *a* being too small to admit of that.

The pintle is passed through the several eyes from the bottom of the butt upward, and a head, C, is secured on the upper end of the pintle, to prevent it from dropping out of the eyes.

By this arrangement, the pintle may be raised, in order to disconnect the two leaves, A A', of the butt, and at the same time the pintle cannot be fully withdrawn from the butt, and consequently cannot be lost or mislaid.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The pintle B, made of uniform diameter in its middle and upper part, and provided with a tapering expanded lower end, *c*, in combination with the tapering internal diameter of the upper eye, *a*, substantially as and for the purpose set forth.

LORENZ MASCHAUER.
WM. FRANKFURTH.

Witnesses:

OTTO FIEBIGER,
ALONZO JONES.