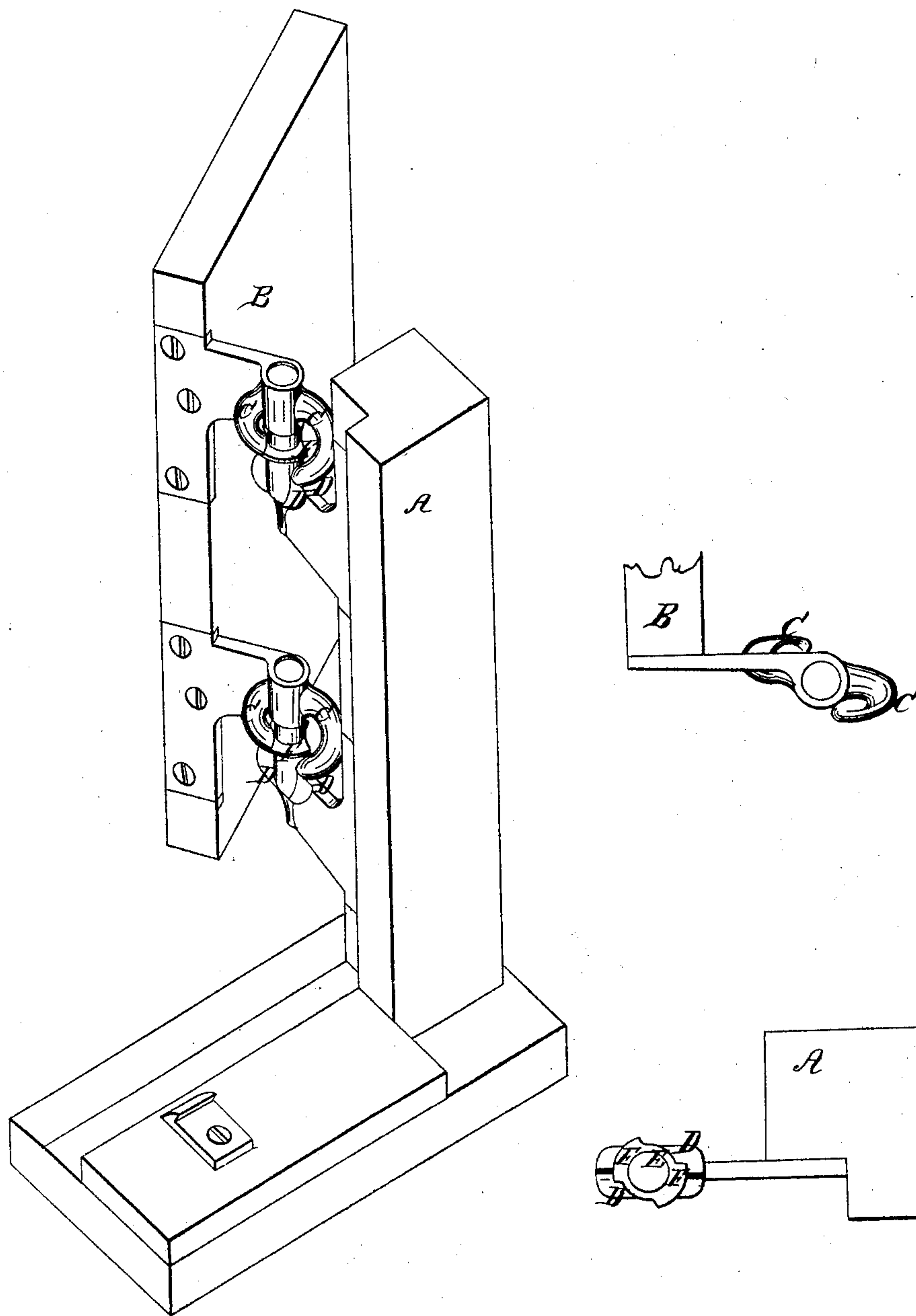


Bettinger & Boos,

Lock Hinge.

N^o 21,735.

Patented Oct. 12, 1858.



UNITED STATES PATENT OFFICE.

MATHIAS BETTINGER AND A. BOOS, OF CINCINNATI, OHIO.

HINGE.

Specification of Letters Patent No. 21,735, dated October 12, 1858.

To all whom it may concern:

Be it known that we, MATHIAS BETTINGER and AUGUST BOOS, both of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Hinges; and we do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification.

This invention relates to that class of hinges in which a door or shutter is held open or closed by gravity by means of the upper section of the hinge settling down into inclined surfaces on the lower and consists in combining with the above arrangement a device by which the door or shutter is prevented from being unshipped by wind or otherwise while swinging to and fro.

In the accompanying drawings Figure 1 is a perspective view showing a shutter mounted with our hinges, partially open, at its most elevated point. Fig. 2 is a top view of the upper portion of the hinge as attached to the shutter and Fig. 3 a top view of the lower portion attached to the frame, exhibiting the double incline and the notched flange.

A, represents the frame and B, the door or shutter.

C, C, are horns of peculiar curved form, projecting downward from the upper por-

tion of the hinge and resting on inclined surfaces D, D, on the lower portion.

E, is the pintle on which the upper portion of the hinge turns.

F, F, are lugs or flanges projecting longitudinally from the pintle at such a distance above the inclined bearings D, as to allow the horns C, to pass between them, and in such position as to engage with the horns C, at that part of the motion of the shutter when it is liable to unship, when suddenly swung round by wind or when lifted by hand in the act of closing. It will be observed that while the lugs effectually prevent the accidental unshipping of the door or shutter from these causes, their position is such as to admit of the door or shutter being readily lifted off its hinges, when it is in a position at which there is no danger of such accidental unshipping.

We claim as new and of our invention—

The described arrangement and combination of the lugs F, F, and horns C, C, for the purposes set forth.

In testimony of which invention we hereunto set our hands.

MATHIAS BETTINGER.
AUGUST BOOS.

Attest:

GEO. H. KNIGHT,
O. H. KNIGHT.