

(No Model.)

J. DUBBELDE.
LOCK HINGE.

No. 586,355.

Patented July 13, 1897.

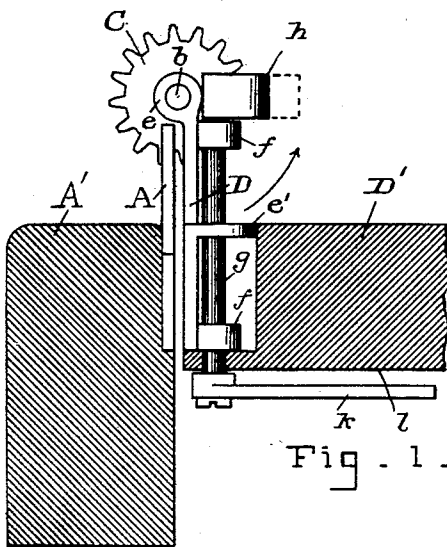


Fig. 1.

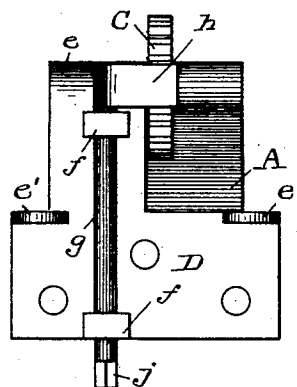


Fig. 2.

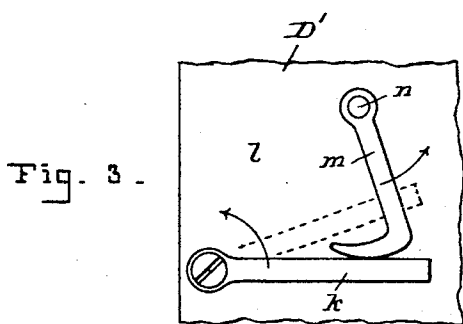


Fig. 3.

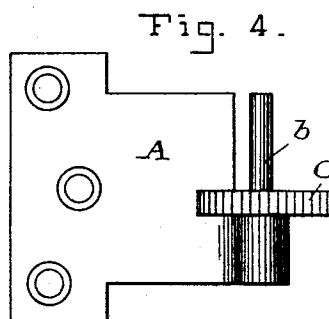


Fig. 4.

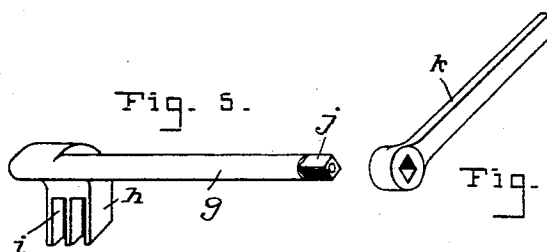


Fig. 5.

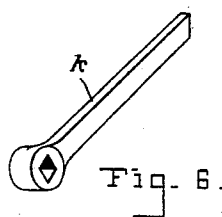


Fig. 6.

WITNESSES :-

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UNITED STATES PATENT OFFICE.

JURGEN DUBBELDE, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF
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LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 586,355, dated July 13, 1897.

Application filed October 3, 1896. Serial No. 607,730. (No model.)

To all whom it may concern:

Be it known that I, JURGEN DUBBELDE, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Shutter-Fasteners, of which the following is a specification.

This invention relates to an improved shutter fastener or bower, the object of the invention being to provide a shutter-hinge which shall have means combined with it so as to comprise a single article of merchandise for holding the shutter in any position partly open, entirely open, or entirely closed.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a top view of the combined hinge and bower, the window-frame and shutter being shown in horizontal section. Fig. 2 is a side view of the hinge and bower projected from Fig. 1. Fig. 3 is a view of a broken portion of the inside of the shutter, showing the operating-lever and cam-fastener. Fig. 4 is a side elevation of one leaf of the hinge. Fig. 5 is a perspective view of the rock-shaft. Fig. 6 is a view separately of the operating-lever.

The leaf A of the hinge, which is to be attached to the window-frame A', has a pintle-pin *b*, like ordinary shutter-hinges, but in addition is provided with a fixed or stationary cogged disk C, whose center is coincident with the axis of the said pintle-pin. The other leaf D, which is to be attached to the shutter D', has the usual eye part *e*, which takes over the pintle-pin, and two flanges *e'*, projecting at an angle to the leaf, but in addition is provided with bearings *f* for a rock-shaft *g*, which extends (when the hinge is in position) through the shutter from the inside to the outside. On its outer end this rock-shaft has a pendent arm *h*, which hangs down in close relation to the rim of the cog-disk and is provided with notched teeth *i*, which engage with the teeth of said disk. The inner end of the rock-shaft has a squared head *j*, and a lever *k* is fitted on this head, and said lever has position adjoining the inner surface *l* of the shutter.

A slight rocking movement of the rock-

shaft *g* causes the pendent arm *h* to swing to and from the cogged disk C, and thus the notched teeth *i* on said pendent arm will engage with and disengage from the teeth or cogs on said disk. The broken lines in Fig. 1 at the right-hand side of the pendent arm indicate the extent of the swinging movement of said arm. The lever *k* on the inner side of the shutter serves as a handle for operating the rock-shaft and its arm.

The leaf D is secured onto the edge of the shutter, and the two flanges *e'* are secured onto the outer face of the shutter, and thereby this leaf is held very firmly.

It will be seen that the shutter D' may be fastened by the pendent arm and cog-disk at any desired position partly open, entirely open, or entirely closed.

In order to hold the operating-lever *k* to its down position, at which time the swing-arm *h* and cog-disk are engaged, a cam-fastener *m* is employed. This cam-fastener is in the shape of a hook, having at its upper end a pivot *n*, which secures it to the shutter.

It will be seen the lower cam part will bear on top of the lever *k* and hold the lever down and thereby keep the device locked. When the cam-hook is swung to the right and the lever *k* is raised, the hook part may then take under the lever and hold it elevated, and thereby keep the pendent arm *h* disengaged from the cog-disk.

This combined hinge and bower is simple and cheap in construction and gives all the advantageous results of more expensive devices.

Having thus described my invention, what I claim is—

In a shutter-hinge and bower the combination of a hinge-leaf, A, for attachment to the window-frame provided with a pintle-pin and a fixed cog-disk whose center is coincident with the axis of the said pin; a hinge-leaf, D, for attachment to the shutter having the usual eye part which takes on the pintle-pin and provided on the side attached to the shutter with bearings, *f*; a rock-shaft turning in said bearings and having on the outer end a swing-arm, *h*, which swings laterally

to and from the said cog-disk; a lever, *l*, on
the inner end of the said rock-shaft; and a
swinging cam-hook, the under side cam part
to hold the said lever down when the device
5 is locked, and the hook to take under the le-
ver and hold the lever up when the device is
unlocked.

In testimony whereof I affix my signature
in the presence of two witnesses.

JURGEN DUBBELDE.

Witnesses:

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