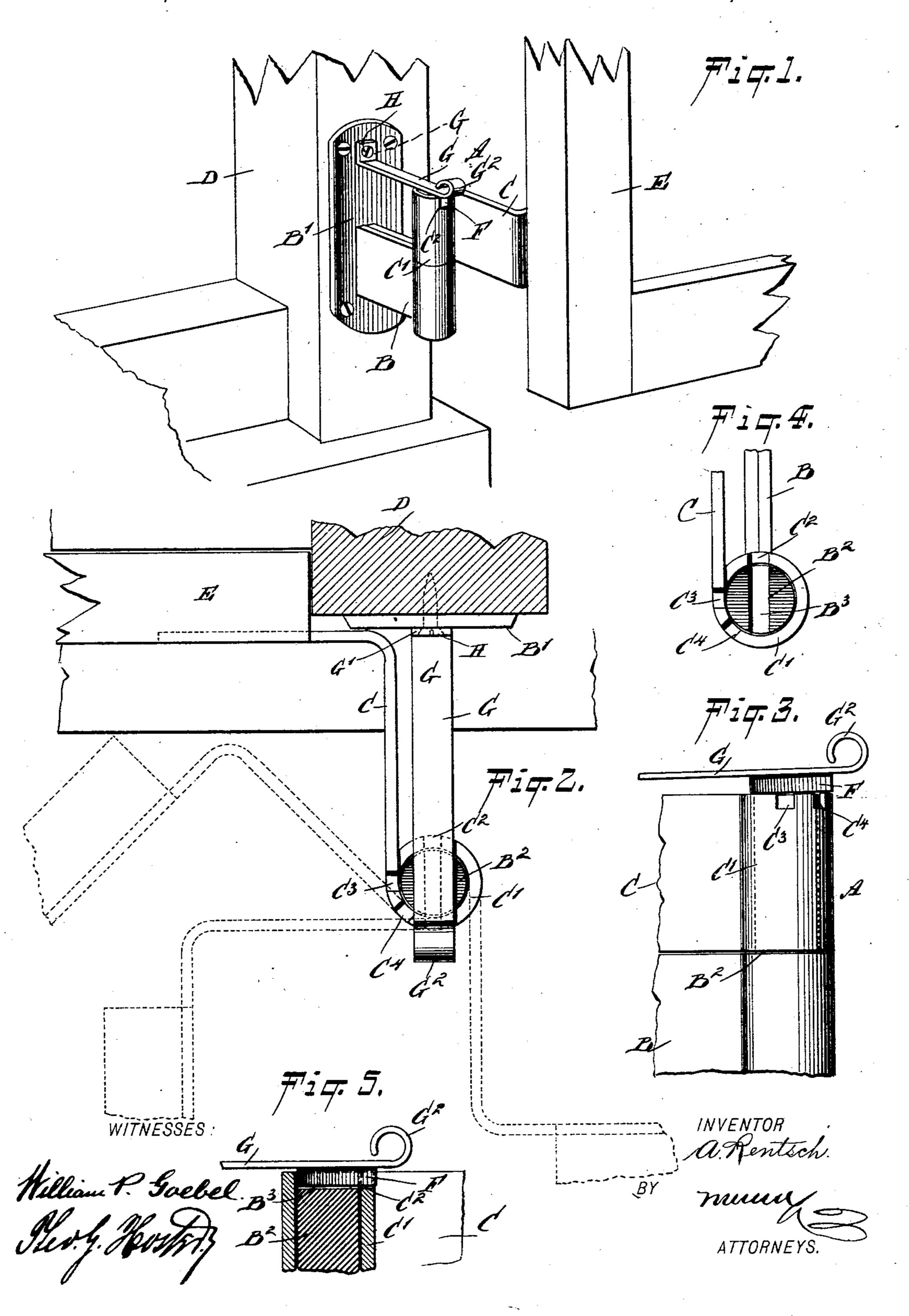
A. RENTSCH. LOCK HINGE.

No. 591,693.

Patented Oct. 12, 1897.



United States Patent Office.

AUGUST RENTSCH, OF BROOKLYN, NEW YORK.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 591,693, dated October 12, 1897.

Application filed April 20, 1897. Serial No. 632,960. (No model.)

To all whom it may concern:

Be it known that I, August Rentsch, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Lock-Hinge for Shutters, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved lock-hinge, more especially designed for use on shutters and arranged to securely hold the shutter either in open or in angular positions, the hinge being very simple and durable in construction and easily manipulated.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improvement as applied and with the shutter in an open position. Fig. 2 is an enlarged plan view of the improvement with the shutter in a closed position and with the window-casing in section. Fig. 3 is a side elevation of part of the improvement with the lock disengaged from the slot and notches at the time the shutter is in a closed position, as shown in Fig. 2. Fig. 4 is a plan view of the pintle and eye, and Fig. 5 is a transverse section of part of the improvement and with the lock engaging the registering notch and slot.

The improved lock-hinge, as illustrated in Fig. 1, is used in connection with the lower hinge A of a shutter, and the said lock-hinge is provided with two leaves B and C, of which the 40 leaf B is provided with the usual attachingplate B', fastened by screws to the windowcasing D in the usual manner. The other leaf C is attached to the shutter E proper, and this leaf is provided with an eye or a sleeve 45 C', mounted to turn on the pintle or guidepin B2, forming a rigid part of the other leaf B. On the top of the pintle B² is formed a transversely-extending slot B3, and in the top edge of the eye C' are formed a series of 50 notches C² C³ C⁴, and adapted to register with the forward end of the slot B³ in the fixed pintle whenever the shutter E is moved into a closed or into an angular position, as indicated in dotted lines in Fig. 2.

The slot B³ and the corresponding register- 55 ing notch C², C³, or C⁴ are engaged by a lug F, extending transversely and secured to the under side of the free end of a spring G, secured at its rear turned-up flange G' by a screw H to the plate B', the said screw also 60 passing into the wood for the window-casing D, so as to assist in holding the plate B' in position on the window-casing, at the same time securing the spring G in place on the plate B'. The extreme outer end of the spring 65 G is preferably curved up, as at G², to form a handle adapted to be taken hold of by the operater to pull the spring G upward to disengage the lug F from the registering slot B³ at the corresponding notch C2, C3, or C4 when- 70 ever it is desired to unlock the shutter to turn the same to a different position. When the shutter E is in a closed position, as illustrated in Fig. 2, then neither of the notches C², C³, or C⁴ register with the outer end of 75 the slot B³, and the lug F is then out of engagement with the slot B3 and its outer end rests on the top edge of the sleeve C', as plainly indicated in Fig. 3. When the shutter is in this position, it is locked to the win- 80 dow-casing by a suitable device, (not shown,) it being distinctly understood that the lug F is out of engagement with the slot and notches to permit of opening the shutter whenever desired without requiring any manual operation 85 at the lock-hinge.

As indicated in Figs. 2 and 4, the notches C², C³, and C⁴ are so arranged relative to the forward end of the transverse slot B³ that when the notch C² is in register with the slot 90 B³ and the lug F engages the said registering parts the shutter E is held in an outermost or open position, as shown in Fig. 1. When it is desired to hold the shutter at right angles to the side of the house, as indicated in dotted lines in Fig. 2, the operator lifts the spring G out of engagement with the slot B³ and notch C² and then swings the shutter inwardly until the lug F drops into the notch C³ and slot B³.

When it is desired to hold the shutter E in an oblique direction, also shown in dotted lines in Fig. 2, the lug F is again unlocked by lifting the spring G upward, the shutter be-

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ing then further turned until the lug F drops into the notch C² and the slot B³.

When it is desired to remove the shutter E for painting, repairing, or other purposes, the operator simply unscrews the screw H to detach the spring G, which on removal permits of lifting the shutter and eye C' off of the pintle B². When, however, the spring G is in use, an accidental unhooking of the shutter E is prevented, as the free end of the spring extends over the top edge of the eye C'.

It will be seen that the device is very simple and durable in construction, can be cheaply manufactured, is not liable to get out of order, and can be easily manipulated to move the shutter into various positions and lock it therein, as above mentioned.

Having thus fully described my invention, I claim as new and desire to secure by Let-

20 ters Patent—

A lock-hinge, comprising leaves one of which carries a fixed pintle and the other is

provided with an eye mounted to turn on the said pintle, the latter being formed at its upper end with a diametric slot, and the upper 25 edge of the said eye being formed with notches adapted to register with the said slot, the notches being so arranged relative to the slot that when the shutter is in a closed position neither of the notches registers with the said 30 slot, and a spring removably connected with the attaching-plate for the pintle-leaf and provided near its free end with a lug held by the resiliency of the spring in engagement with the said slot and with one of the said notches 35 in register at the time with the slot, the lug resting on the top edges of the eye when the shutter is in a closed position, substantially as described.

AUGUST RENTSCH.

Witnesses:
Theo. G. Hoster,
Jno. M. Ritter.