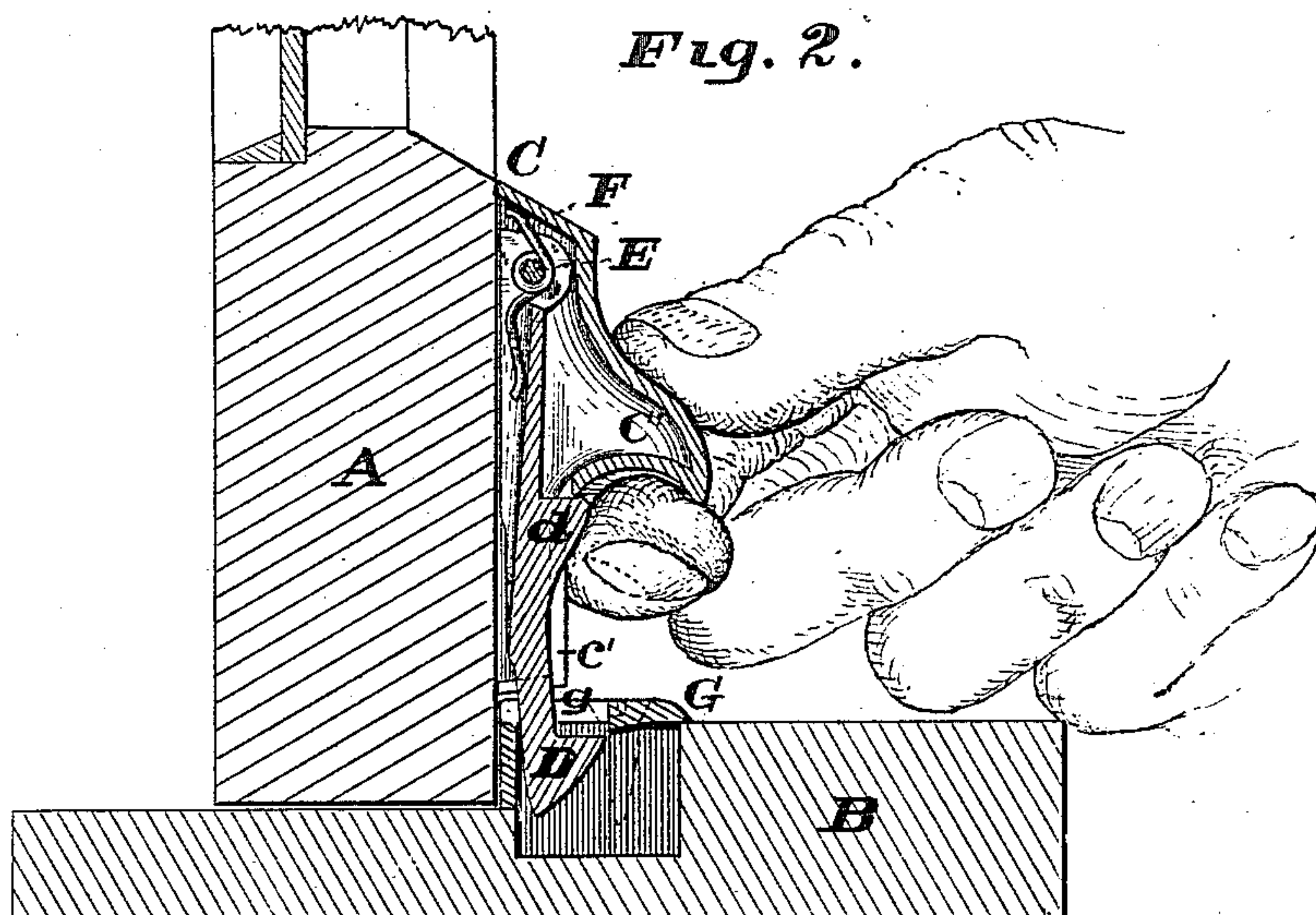
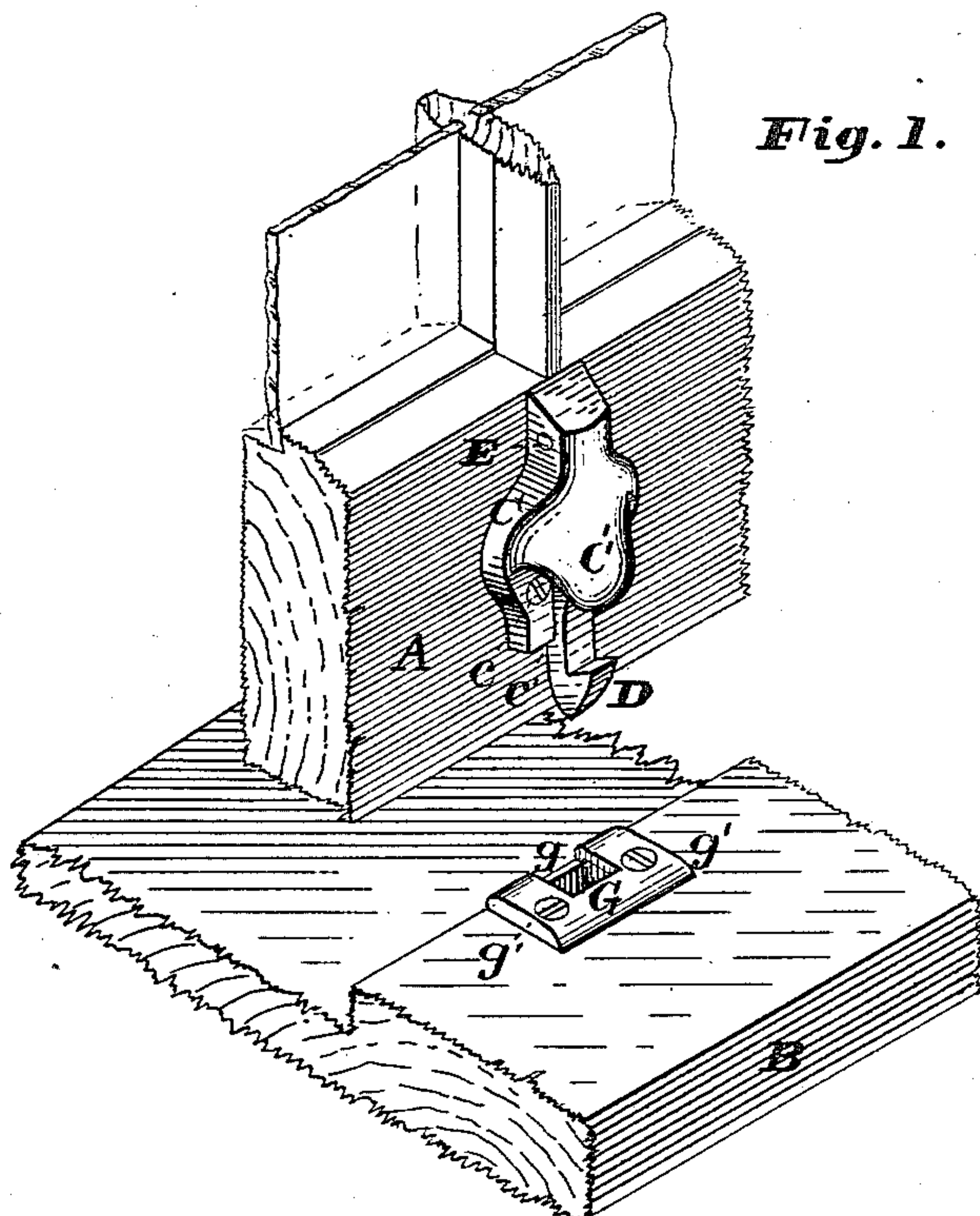


T. A. IRELAND.
Sash Lock and Lifter.

No. 226,173

Patented April 6, 1880.



Attest.
Walker Knight
Walter Schlenker

Inventor
Thomas A. Ireland
By Knight Bros. Attys.

UNITED STATES PATENT OFFICE.

THOMAS A. IRELAND, OF CINCINNATI, OHIO.

SASH LOCK AND LIFTER.

SPECIFICATION forming part of Letters Patent No. 226,173, dated April 6, 1880.

Application filed January 7, 1880.

To all whom it may concern:

Be it known that I, THOMAS A. IRELAND, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Window-Sash Lock and Lifter, of which the following is a specification.

My invention is an improvement on the customary lug or projection from the bottom rail of a window-sash to enable such sash to be lifted; and my improvement consists in the addition to such lifter of a yielding hook, which, on the closure of the sash, engages under a plate or flange upon the window-sill, and which, when the sash is to be lifted, is pressed back by the operator's finger, so as to necessarily unlock the sash in the very effort to lift the same.

An embodiment of my invention is illustrated in the accompanying drawings, in which Figure 1 is a perspective view of my lock and lifter, the sash being partially elevated. Fig. 2 is a vertical section of the same, the sash being shown closed and the hook being shown retracted by the pressure of the operator's finger in the act of lifting the sash.

A may represent a part of a lower window-sash; B, a part of the window-sill.

C represents the plate or housing, and C' the lug of my lifter, said lug constituting a rigid projection from the sash, and having the customary concave under surface for reception of the operator's finger.

The lifter-body has orifices *c* for wood-screws, by which it is fastened to the sash in the manner shown. Said body has also a slot or recess, *c'*, which is occupied by a hook or catch, D, which is pivoted by its upper end at E to the lifter. Said catch has on its front surface a swell or protuberance, *d*, against which the operator's finger presses in the effort to lift the sash, as indicated in Fig. 2.

A spring, F, secured on the rear of the catch D, holds it normally forward, but permits it to be temporarily retracted or pressed back either by the action of the sill-plate in closing the sash or by the pressure of the operator's finger in opening the sash, as already stated.

The sill-plate may consist of a simple L-formed piece of metal, G, having a rectangular orifice, *g*, to admit the hooked extremity of the catch, and suitable holes *g* for the wood-screws, by which it is attached to the window-sill.

Any form of spring may be employed; but I have found convenient and prefer the form here shown, having a central coiled portion surrounding the pivot and occupying a forked recess in the upper end of the catch, and extending upward and downward for pressure against the rear surfaces of the lifter and catch, respectively, in the manner indicated in Fig. 2.

The sill-plate may consist of a simple flat rectangular strip of metal, if preferred.

Over those devices in which the duties of catch and lifter are discharged by a single member my device possesses several obvious advantages—for example, the act of lifting the sash, often requiring considerable force, puts no strain on the catch. In the act of lifting, the operator necessarily releases the catch without mental exercise on his part. The lifter constitutes a protecting housing for the catch. The device, besides being more neat and slightly, is characterized by greater compactness, strength, and durability.

I claim—

As a new article of manufacture, the combined sash lifter and fastening consisting of plate or housing C, recessed at *c'*, and having lifting-lug C', the locking hook or catch pivoted to the lifter C and protruding from the face thereof, the spring F, and the sill-plate G, all substantially as and for the purposes set forth.

In testimony of which invention I hereunto set my hand.

THOMAS A. IRELAND.

Witnesses:

GEO. H. KNIGHT,
W. TYSON JUDKINS.