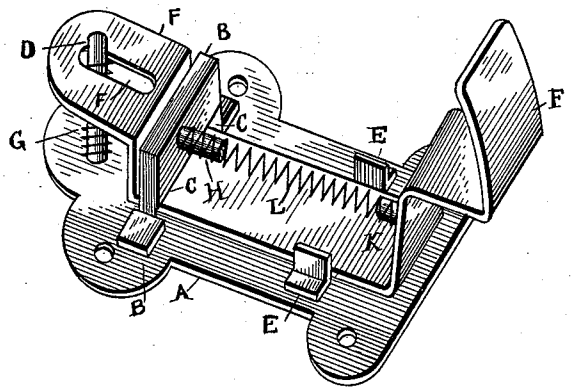
(No Model.)

H. FRÖHLICH.

LATCH.

No. 588,639. Patented Aug. 24, 1897.



WITNESSES:

E. K. Campbell

Ned Campbell.

Hugo Fröhlich INVENTOR

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UNITED STATES PATENT OFFICE.

HUGO FRÖHLICH, OF BELLEFONTAINE, OHIO.

LATCH.

SPECIFICATION forming part of Letters Patent No. 588,639, dated August 24, 1897.

Application filed January 25, 1896. Serial No. 576,785. (No model.)

To all whom it may concern:

Be it known that I, HUGO FRÖHLICH, a citizen of the United States, and a resident of Bellefontaine, in the county of Logan and State of Ohio, have invented a new and useful Improvement in Screen-Door Fastenings, of which the following is a specification.

My invention relates to certain improvements in automatic fastenings for screen-doors, gates, &c.

The drawing shows a perspective view of my device.

The construction and operation of my device are as follows:

Mounted on the base-plate A is a double standard or bracket B, having a slot C through it above the plate A. To the rear of the bracket, also mounted on plate A, is a pin D, and in front of the bracket are two guides E E, forming part of the base-plate.

F is a sliding and tilting latch or fastening formed of a metallic strip resting on plate A between the guides and bent at right angles up from the plate near each end and again horizontally front and back, as shown in the drawing. The extreme front end of the latch is bent back at an angle of forty-five degrees, forming a beveled end for the door to strike on. In the rear horizontal part of the latch is a slot through which the pin D plays, while a coil-spring G, surrounding the pin, presses the rear part of the latch upward. The slot C is larger vertically than the thickness of the latch F to allow the raising of the latch therein when the front of the latch is swung out in opening the door.

Projecting forward from the front of bracket B is a pin H, and a corresponding pin K projects toward the rear from the front upright part of the latch. A stiff coil-spring L has its two ends fitted onto these two pins H and K and tends to keep the latch pressed forward on the plate with its rear upright part against the rear of the bracket B.

In operation the plate A is screwed fast to the door-facing on the outside of the house, the front edge of the plate flush with the inner edge of the facing, the front projecting part of the latch projecting out half an inch or so over the screen-door frame. When the screen-door is opened, the front end of the latch is pushed outward, and the spring G yields, allowing the latch or fastening F to swing outward sufficient for the edge of the door to swing past it. As soon as the door passes the front edge of the latch the spring G, together with the spring L, which has been twisted out of line, brings the latch back into its normal position again. When the screen-door is closed or slammed to again, it strikes the beveled front of the latch, the spring L yields, and the latch slides back out of the road, allowing the door to pass, when the spring I again pushes the latch out in front of the door and holds it closed.

What I claim is—

In a screen-door fastening the securing-plate A, the slotted bracket B, the guides E, and the pin D, mounted on the plate, the latch F, bent as shown, to form a latch at the front end, and a slotted resistance-plate at the rear, the spring G, and the pins H, and K, and spring L, as and for the purpose set forth.

HUGO FRÖHLICH.

Witnesses:
E. K. CAMPBELL,
NED CAMPBELL.