L. E. GAMBLE.

CATCH FOR SCREEN DOORS.

APPLICATION FILED SEPT. 12, 1912.

1,068,886. Patented July 29, 1913.

Fig. 1.

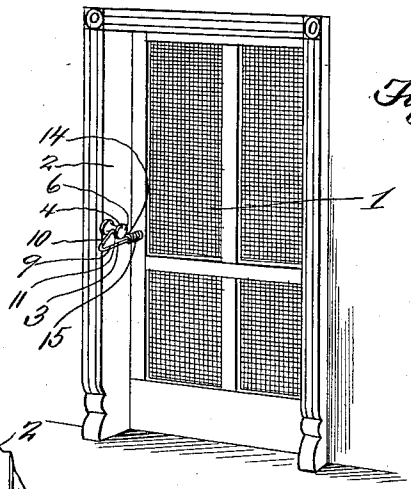


Fig. 2.

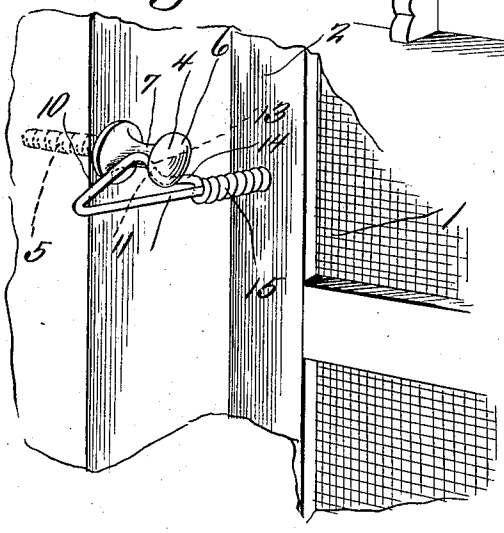


Fig. 3.

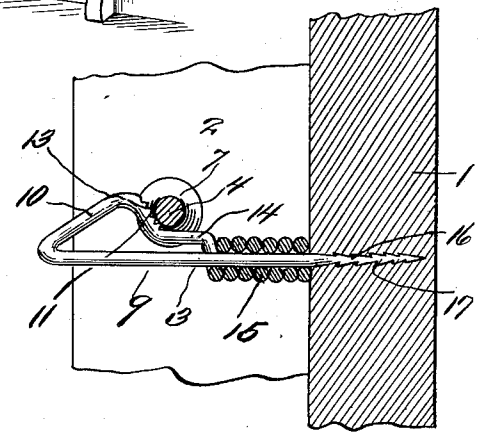
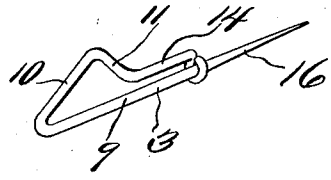


Fig. 4.



Witnesses

Robe Meyer

Francis J. Boswell.

Inventor

L. E. Gamble,

By D. Swift & Co

Attorneys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LLOYD E. GAMBLE, OF ALPHA, ILLINOIS.

CATCH FOR SCREEN-DOORS.

1,068,886. Specification of Letters Patent. Patented July 29, 1913.

Application filed September 12, 1912. Serial No. 719,971.

To all whom it may concern:

Be it known that I, LLOYD E. GAMBLE, a citizen of the United States, residing at Alpha, in the county of Henry and State of Illinois, have invented a new and useful Catch for Screen-Doors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to a new and useful catch for screen doors and the like.

One of the objects of the invention is to provide an exceedingly simple and efficient, yet a desirable and practical device of this nature, constructed of a single length of spring wire having coiled means for insuring strength and rigidity, yet allowing a sufficient amount of resiliency, so that the catch may readily coöperate with a button, to hold a screen door or the like firmly closed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view in perspective of a screen door, showing the improved catch as applied thereto. Fig. 2 is an enlarged view in perspective of the catch. Fig. 3 is a detail sectional view. Fig. 4 is a detail view showing a different construction.

Referring more particularly to the drawings 1 designates a screen door, while 2 denotes the frame of the door opening, whereas 3 designates the catch, and 4 the button, which button is secured in the frame by the shank 5. The button is provided with a head 6, and a conical body 7. The catch 3 is constructed from a single length of spring wire having a horizontal portion 9, and bent upon itself to form an inclined portion 10 and an inclined shoulder 11. The inclined portion 10 slides against the conical portion of the button, as the screen door is being closed, so that the shoulders 11 will engage that portion of the conical portion of the button farthest from the screen door. The shoulder 11 is provided with corrugations or serrations 13, so as to insure a firm connection, in case an endeavor is made to open the screen door from the outside. The portion 14 beyond the shoulder 11 of the wire or material forming the catch lies substantially parallel with the horizontal portion 9, there being a plurality of coils 15 extending about the horizontal portion 9, in order to insure rigidity and strength, yet allowing the proper resiliency, to permit the catch to engage the button. The portion 16 of the horizontal portion 9, beyond the coils, constitutes a shank, which penetrates the frame of the door, there being teeth 17 to hold the shank in place. The coils not only strengthen the horizontal portion 9, but also act as a shoulder which engages the door frame.

The invention having been set forth, what is claimed as new and useful is:—

A door catch constructed of a single length of spring wire comprising a horizontal portion; the wire being bent upwardly upon itself to form an inclined portion, adapted to frictionally slide against a button as the door is being closed; said wire, adjoining the inclined portion, being bent downwardly to form an inclined shoulder having corrugations to engage said button after the door is completely closed; the corrugations constituting means to insure a firm engagement between the catch and the button; a portion of the wire beyond the shoulder being arranged parallel to the said horizontal portion, while the remaining wire is formed with a plurality of coils extending about the horizontal portion; the coils constituting a shoulder to engage the door, while the horizontal portion terminates in a shank beyond the coils and secured in the door.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LLOYD E. GAMBLE.

Witnesses:
H. S. BRINK,
J. P. BAKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."