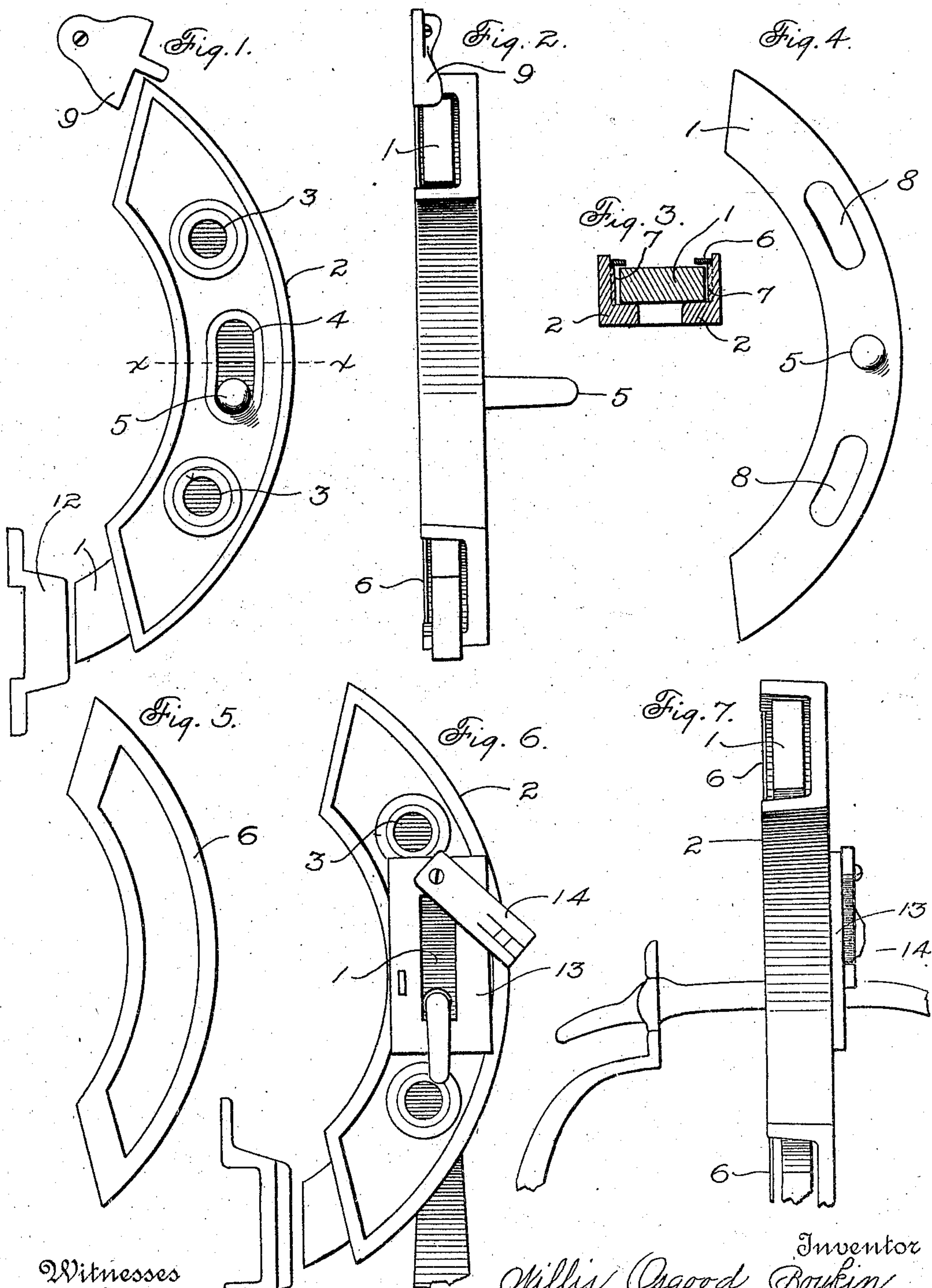


No. 806,054.

PATENTED NOV. 28, 1905.

W. O. BOYKIN.
LATCH.

APPLICATION FILED DEC. 29, 1903. RENEWED MAY 8, 1905.



Witnesses
Roy C. Clafflin
L. E. Schnell.

Inventor
Willis Asgood Boykin
by Edson Bros.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIS OSGOOD BOYKIN, OF ST. LOUIS, MISSOURI.

LATCH.

No. 806,054.

Specification of Letters Patent.

Patented Nov. 28, 1905.

Application filed December 29, 1903. Renewed May 8, 1905. Serial No. 259,434.

To all whom it may concern:

Be it known that I, WILLIS OSGOOD BOYKIN, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Latches; 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.

My invention relates to latches.

It has for its object to provide a gravity-latch which is of simple but durable construction and will not easily get out of order.

This invention consists of certain details of construction and combination of parts, as hereinafter described, and more particularly pointed out in the claims.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is an elevation of a reversible surface latch manufactured in accordance with my invention. Fig. 2 is an edge view thereof. Fig. 3 is a cross-section view on line *x x* of Fig. 1. Figs. 4 and 5 are detached views of the bolt and bearing-plate, respectively. Figs. 6 and 7 are side and edge views, respectively, of a latch similar to that shown in Figs. 1, 2, 3, 4, and 5 arranged so that it can be raised from the other side of the gate.

Referring more particularly to the drawings, the preferably arcuate bolt or plunger 1 is housed in a suitable casing 2. The casing for the surface-latch conforms to the shape of the bolt and is provided with screw-holes 3 and a slot 4, in which the handpiece 5 works. Said casing is provided with a bearing-plate 6, fitting in a corresponding recess in the back of the casing against stop-ribs 7, provided for that purpose, which prevents its binding upon the bolt. The bolt for this latch has the handpiece 5 preferably integral therewith and is provided with a slot 8, through which the screws pass, whereby the latch is free to move when secured to a gate or door. The bolt is of such length as compared with the casing that one end always projects, so that the latch is reversible—that is, is adapted to be secured to either the gate or door or its frame. A small lever 9 is pivoted just above the bolt to lock the same in position and keep it from being raised and unlatched.

Suitable socket-pieces 12 may be provided for the different forms of latch. An escutcheon 13, provided with a thumb-piece 14, is pref-

erably used with the forms of latch having the separate finger-pieces adapted to be operated from both sides of the door, said finger-piece working in the slot of said escutcheon and adapted to have the thumb-piece pushed over it to prevent the raising of the latch from the opposite side of the door. It is obvious that the lever 9 may be used with the latch shown in Fig. 6 in place of the escutcheon 13 with its thumb-piece 14.

Latitude is allowed herein as to details, as they may be changed at will and the spirit of my invention remain intact and be protected.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a reversible gravity-latch, an arcuate bolt, an arcuate casing adapted to entirely house said bolt on all sides, but having its ends entirely open, said bolt longer than said casing and having either end adapted to project from said casing to lock the door.

2. In a gravity-latch, an arcuate bolt having an integral operating-piece and a slot for the passage of a fastening medium, an arcuate casing for said bolt, said casing being in two sections, one section housing three sides of said bolt and having a slot through which said operating-piece projects and in which it works, said section also having a perforation for the passage of the fastening medium, the other section adapted to inclose the bolt at its other side, and having an elongated slot through which the fastening medium passes, and means to prevent the lateral movement of said sections with relation to each other.

3. In a gravity-latch, a bolt, a casing in two sections, one section housing three sides of said bolt and having ribs interiorly of its sides extending from the inner face of the middle portion outward for engagement with the other section, said other section comprising a skeleton plate adapted to fit within the external edges of said first section upon the ends of said ribs, said first section and the bolt each having perforations for the passage of the fastening medium, and means for operating said bolt.

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

WILLIS OSGOOD BOYKIN.

Witnesses:

A. DANN,

A. J. ARCHAMBAULT,