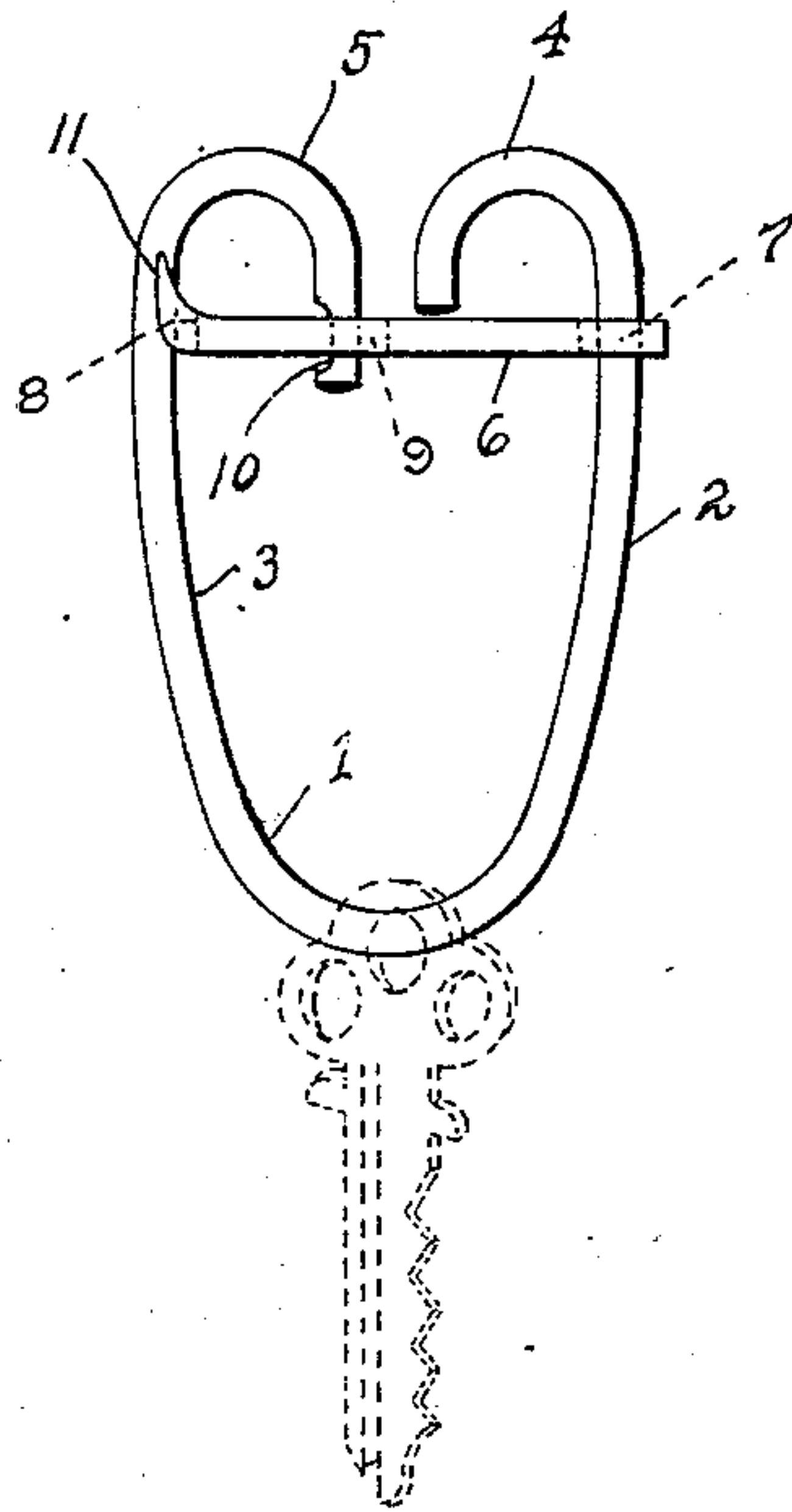


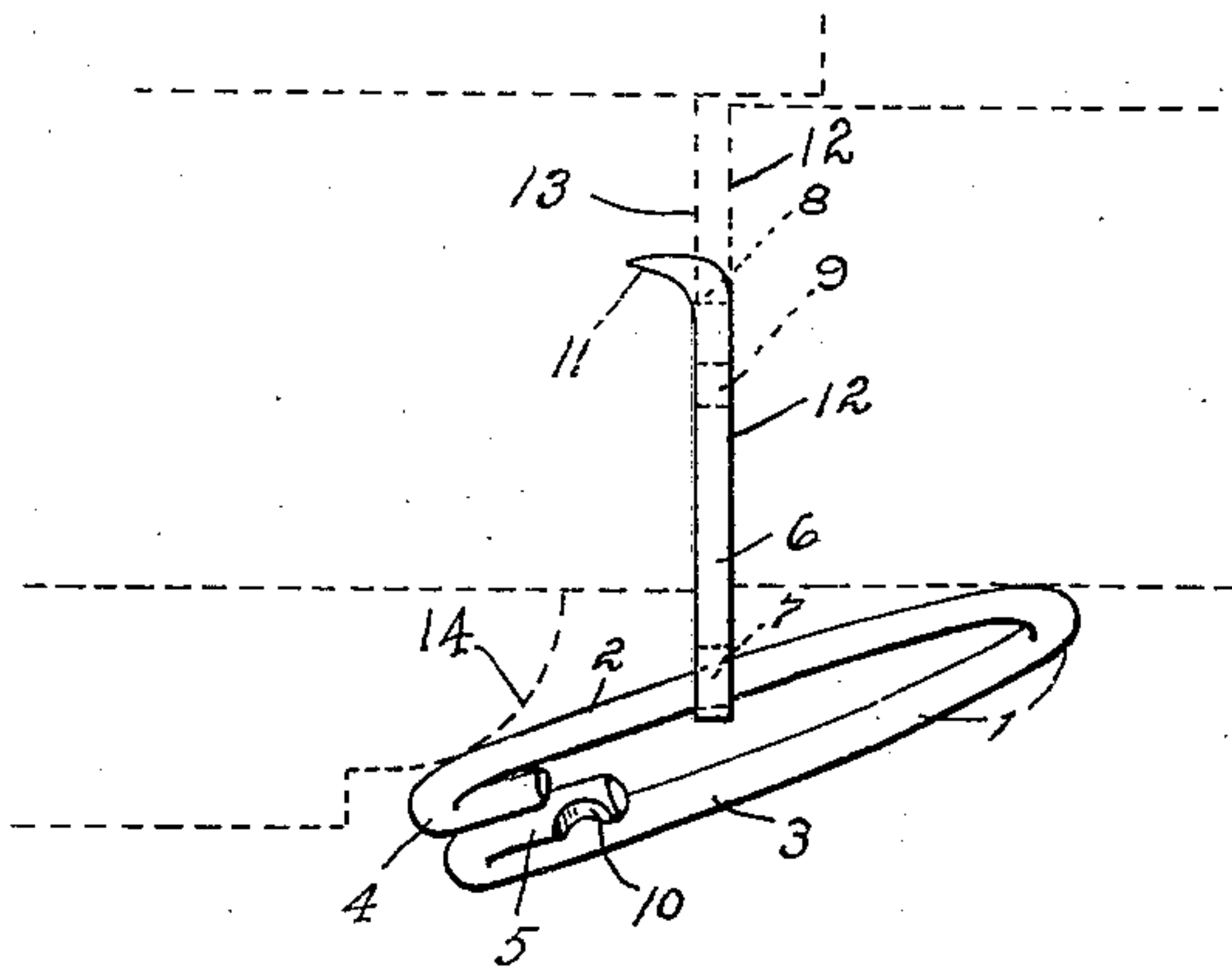
L. M. COOPER.  
KEY RING AND DOOR SECURER.  
APPLICATION FILED FEB. 17, 1908.

898,725.

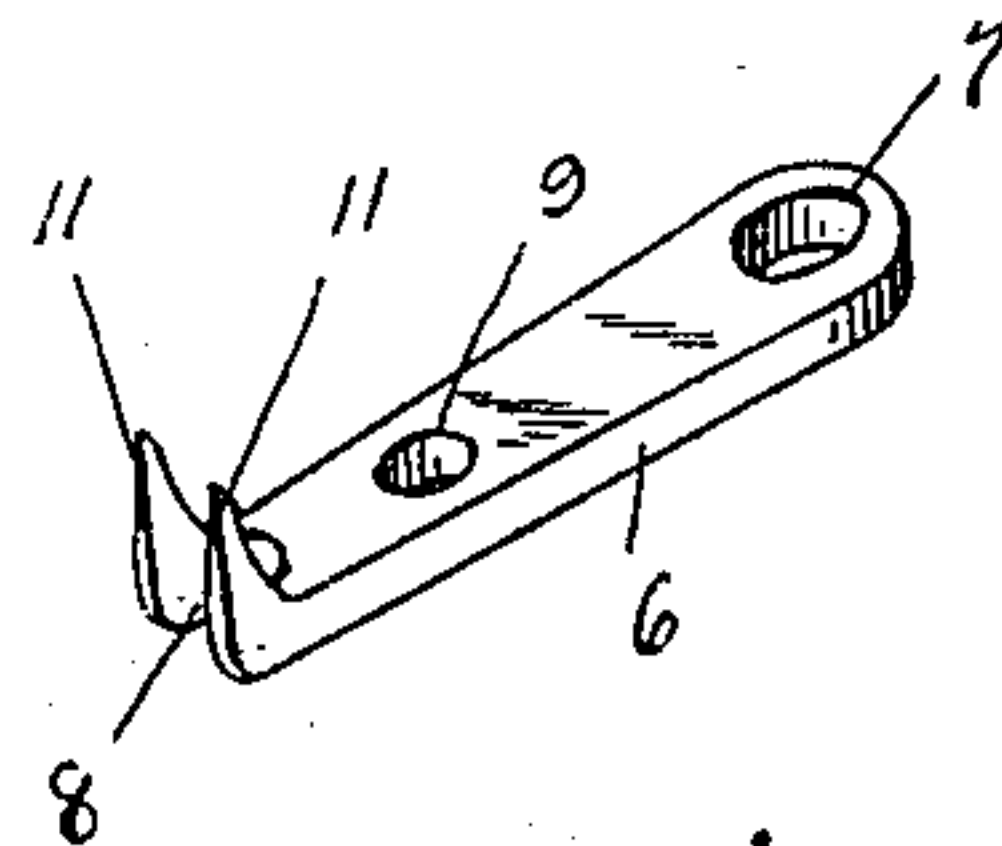
Patented Sept. 15, 1908.



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

WITNESSES.

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# UNITED STATES PATENT OFFICE.

LYMAN M. COOPER, OF FLINT, MICHIGAN, ASSIGNOR OF ONE-HALF TO ALFRED ADAIR, OF FLINT, MICHIGAN.

## KEY-RING AND DOOR-SECURER.

No. 898,725.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed February 17, 1908. Serial No. 416,267.

*To all whom it may concern:*

Be it known that I, LYMAN M. COOPER, a citizen of the United States of America, residing at Flint, in the county of Genesee and State of Michigan, have invented certain new and useful Improvements in a Key-Ring and Door-Securer, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a combined key ring and door securer, and consists in the matters hereinafter set forth, and more particularly pointed out in the appended claims.

Referring to the drawings, Figure 1 is a view in elevation of a combined key ring and door securer embodying features of the invention, showing the device arranged as a key ring. Fig. 2 is a view in perspective showing the device in use as a door securer, portions of a door and its casing. Fig. 3 is a detail view in perspective of a locking bar.

As shown in the drawings, a flat hoop 1 of spring metal wire preferably elongated with its arms 2 and 3 slightly divergent, has its end portions 4 and 5 inturned in parallel spaced relation. A key guard and locking bar 6 has an aperture 7 at one end in which one arm 2 of the hoop may be inserted, and a transverse notch 8 at its other end by which the opposite arm 3 is engaged when the bar is turned squarely across the ends 4 and 5 to bridge the gap between them, the end 5 of the arm 3 passing through a second aperture 9 in the bar and having a notch 10 adapted to interlock with the aperture rim, and the shorter end 4 abutting against the bar to prevent its rocking, the lock bar slightly distending the arms of the hoop so that the resultant spring tension holds the parts in place and prevents the release of a key placed on the hoop. A pair of sharp spurs 11 extend laterally from the notched end of the bar.

To secure a door, the bar is laid against the face 13 of a door casing; when the door is closed, the spurs 11 are forced into the face of the door casing and the hoop 1 is then turned transversely to bear against the door and casing 14, preventing the opening of the door. The door is released by working the hoop through the bar aperture to either end of the arm 2 when it may be turned back to clear the door which then may be swung back.

What I claim as my invention is:—

1. A combined key ring and door securer comprising a bar adapted to be wedged between the edge of a door and its opposing jamb and a key hoop with separated ends movably attached to the bar and adapted to be turned transversely across the adjacent margins of the door and its jamb when the bar is so engaged, said bar being adapted to be detachably locked across the hoop ends when otherwise disengaged.

2. A combined key ring and door securer comprising a locking bar with a transversely spurred end adapted to be wedged between the edge of a door and its opposing casing, and an open key hoop loosely engaging an aperture in the other end of the bar, the hoop being adapted to be turned transversely across the adjacent margins of the door and casing when the bar is secured between them, and to interlock with the bar across its open ends when the bar is disengaged from the door.

3. A combined key ring and door securer comprising a locking bar with a transversely spurred notched inner end adapted to be wedged between the edge of a door and its opposing casing, and a key hoop of spring metal wire with substantially parallel arms having inbent parallel spaced ends, one of said arms being loosely engaged in an aperture in the outer end of the bar, and the other of said arms being adapted to have spring pressed interlocking engagement with the indented end when the bar is turned transversely across the opening between the hoop ends.

4. A combined key ring and door securer comprising a flat hoop of spring wire having substantially parallel arms with inbent parallel spaced ends, and a bar having an apertured inner end loosely engaging one of the hoop arms and an indented and transversely spurred outer end adapted to snap into the inbent end of said hoop when the bar is turned between the arms across the separated ends, one of which is extended and notched to interlock with an aperture in the bar, the bar being adapted to be wedged between the edge of a door and its jamb and secured there by its spurred end, and the hoop being adapted to be turned transversely across the adjacent margins of the door and its jamb when the bar is wedged between them.



5. A combined key ring and door securer comprising a flat heart shaped hoop of spring wire with parallel spaced intumed ends one of which is longer than the other and has a  
5 peripheral notch substantially opposite the other end, and a flat key guard and lock bar having an aperture at one end loosely engaging the arm of the hoop opposite the larger end, an indented free end to interlock  
10 with the opposite hoop arm when the bar is forced between the arms against the shorter end, and an aperture near the indented end adapted to receive the longer hoop end and

interlock with its notched periphery, the indented end having lateral spurs whereby the  
15 bar may be secured between the edge of a door and its opposing jamb with the ring transversely disposed across the door margin as a stop.

In testimony whereof I affix my signature 20  
in presence of two witnesses.

LYMAN M. COOPER.

Witnesses:

ALFRED ADAIR,  
GEO. E. NEWALL.