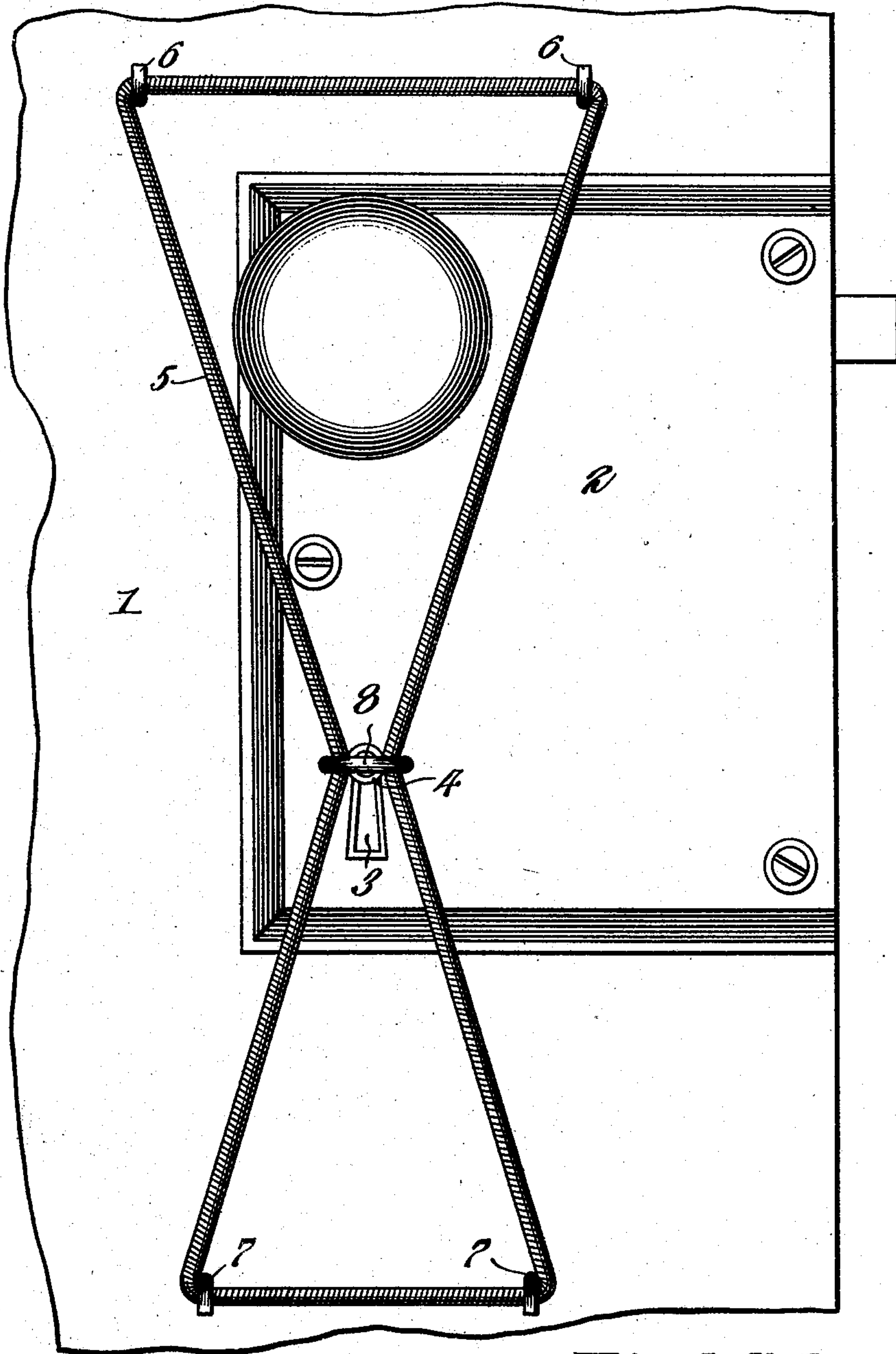


E. J. PEPPER,
KEY FASTENER.

APPLICATION FILED JUNE 9, 1906.

919,941.

Patented Apr. 27, 1909.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

ELIZABETH JANE PEPPER, OF JACKSON, MISSOURI.

KEY-FASTENER.

No. 919,941.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed June 9, 1906. Serial No. 321,008.

To all whom it may concern:

Be it known that I, ELIZABETH JANE PEPPER, a citizen of the United States, residing at Jackson, in the county of Cape Girardeau and State of Missouri, have invented new and useful Improvements in Key-Fasteners, of which the following is a specification.

This invention relates to an improvement in key fasteners designed primarily to prevent unauthorized manipulation of the key from outside the door.

The main object of the invention is the production of a fastening means designed to be readily applied and cooperating with any ordinary form of key, the fastening means being readily capable of such adjustment as will regulate the holding effect on the key to the extent desired.

The invention will first be described in the following specification, reference being had particularly to the accompanying drawings, in which:

The figure is a view in elevation, showing a portion of the door carrying the lock, my improved fastener being illustrated in applied position.

Referring particularly to the drawings, 1 represents a door to which is secured in any desired or preferred form a lock 2. The lock is provided with the usual key opening 3 designed to receive and support any ordinary form of key 4, by which the usual bolt is operated.

My improved fastener comprises an endless band 5 of spring material, preferably of the ordinary coil spring type so that the band is universally flexible, as well as extensible.

In connection with the band, I utilize hook fasteners 6 and 7, arranged in pairs above and below the lock. The respective pairs of hooks, which are preferably, though not necessarily of the right angle type shown, are disposed in alinement transverse the door above and below the lock, the hooks of each pair being respectively spaced apart a distance considerably in excess of the diameter of the ring 8 of the key and on opposite sides of the vertical plane of the key hole.

In use, the key having been turned to locking position, the fastener is engaged over the upper pair of hooks 6, and then passed through the key ring and into engagement with the lower pair of hooks 7. This operation disposes the band in the form of an oblong loop whose longitudinal side stretches are drawn inwardly by the ring of the key, toward which they converge downwardly and upwardly from the upper and lower set of hooks, whereby the said longitudinal side stretches are held under tension and exert opposite pressures on the ring of the key. As a result the key will be held from rotary movement by the resistance of the stretches to further distention, any twisting action on said stretches produced by an attempt to turn the key increasing their resistance to the rotary movement of the key.

It is to be understood that the band 5 is, when in applied position, under such tension as to effectively hold the key against movement, though it is obvious that if desired such tension may be increased by coiling the band about the hooks 6 or 7 to decrease the normal length of the band between the hooks and thereby increase the tension. By preference, the lower pair of hooks 7 are disposed closer to the key than the upper pair of hooks, said hooks 7 being spaced apart a greater distance than the hooks 6. This construction provides for an increased angular relation of the sides of the band below the key so as to further increase the holding effect at this point.

The fastener as a whole is readily applied or removed, and the hooks 6 may be of the screw type so that the entire structure is rendered portable for application to any desired door.

Having thus described the invention, what I claim is:—

The combination with a door and a key operated lock carried thereby, of means for resisting a turning movement of the key in the lock, said means comprising fastening elements secured to the door in pairs above and below the lock, the elements of each pair being spaced apart a distance exceeding that

of the maximum diameter of the key ring, and on opposite sides of the vertical plane of the key hole of the lock, and an endless extensible band adapted to engage the elements
5 of each pair and to be passed through the key ring, the ends of the band engaging the elements being maintained by the elements on a plane below that of the key ring, and said

elements being so disposed as to maintain the band under extreme tension. 10

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

ELIZABETH JANE PEPPER.

Witnesses:

J. G. MILLER,

W. W. SEIBERT.