

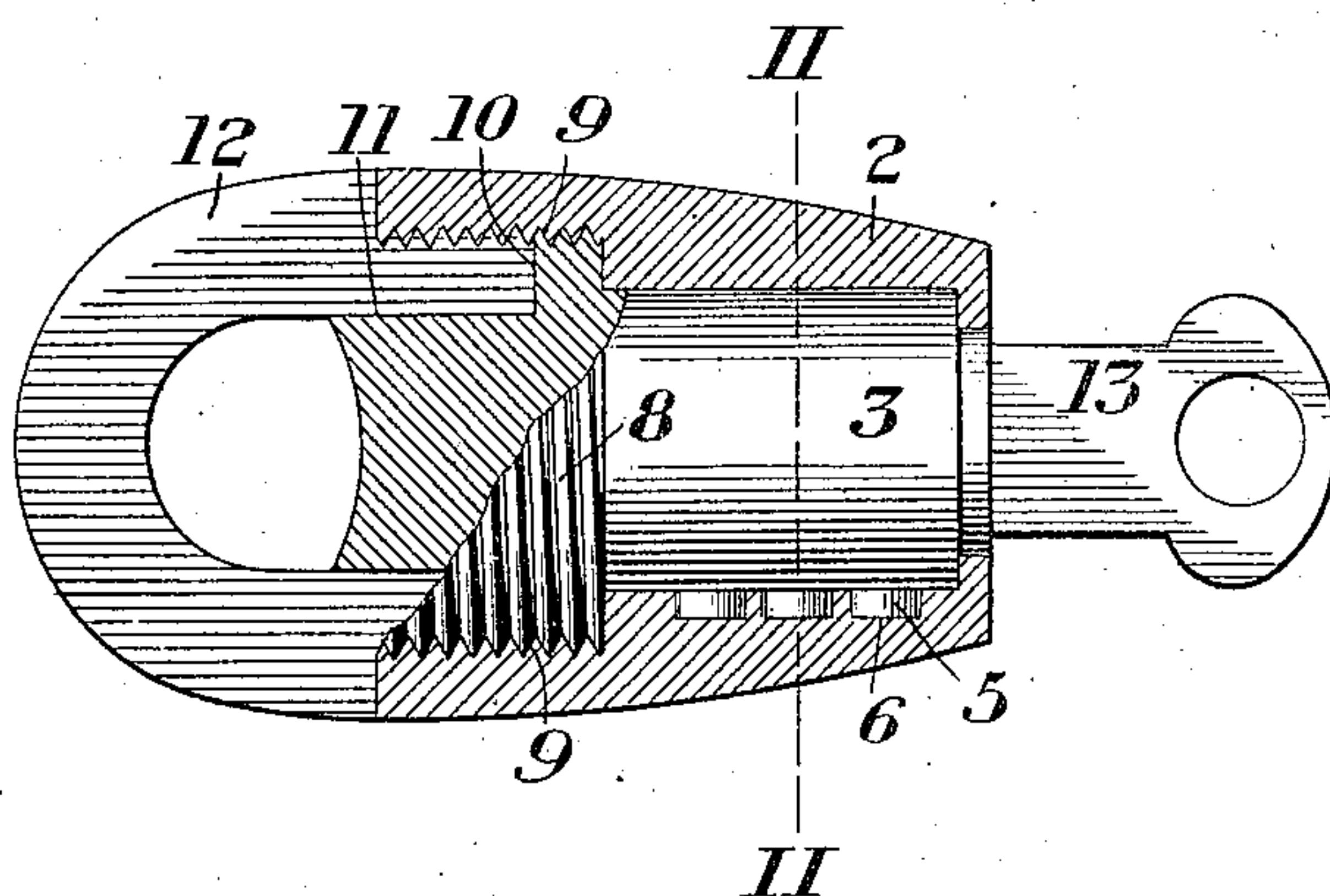
No. 844,412.

PATENTED FEB. 19, 1907.

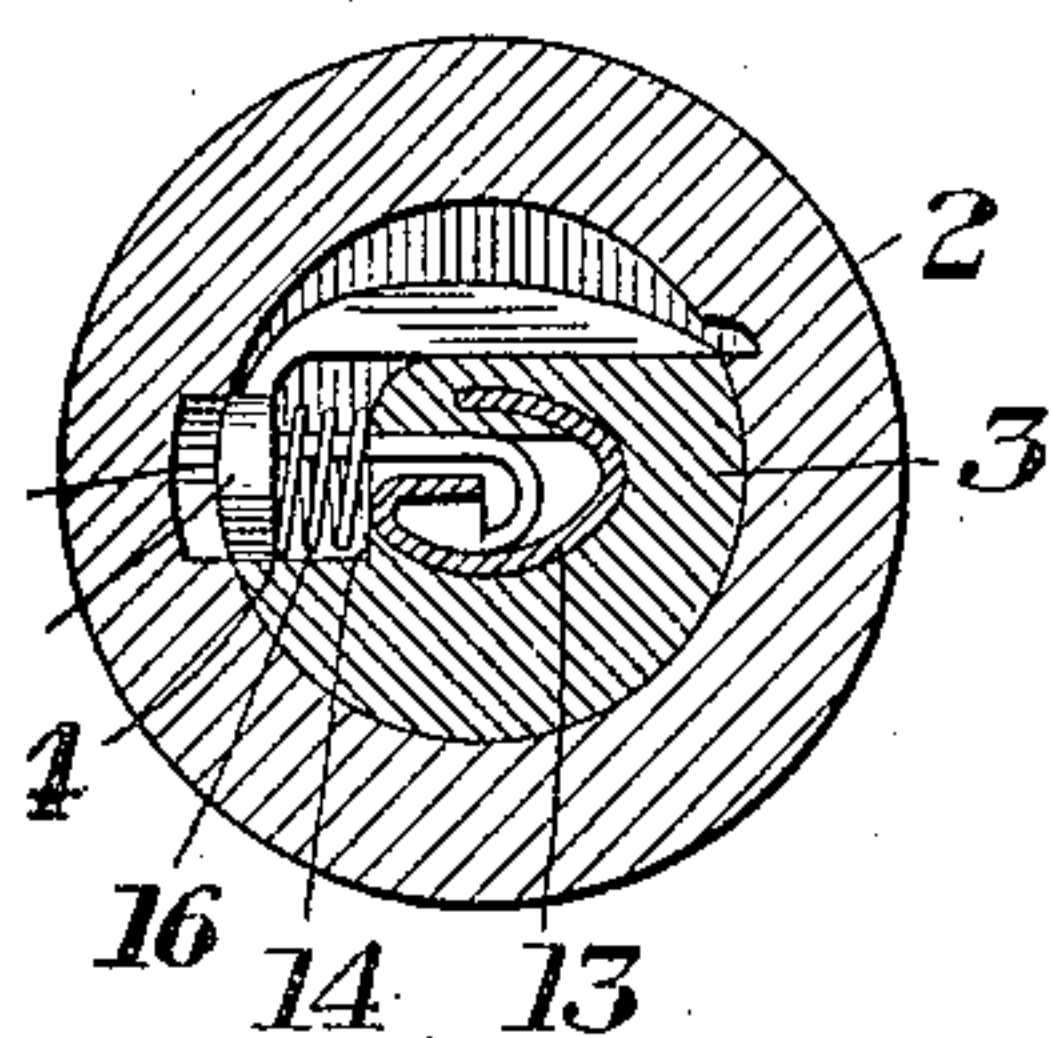
F. W. SCHROEDER.  
PADLOCK.

APPLICATION FILED APR. 23, 1906.

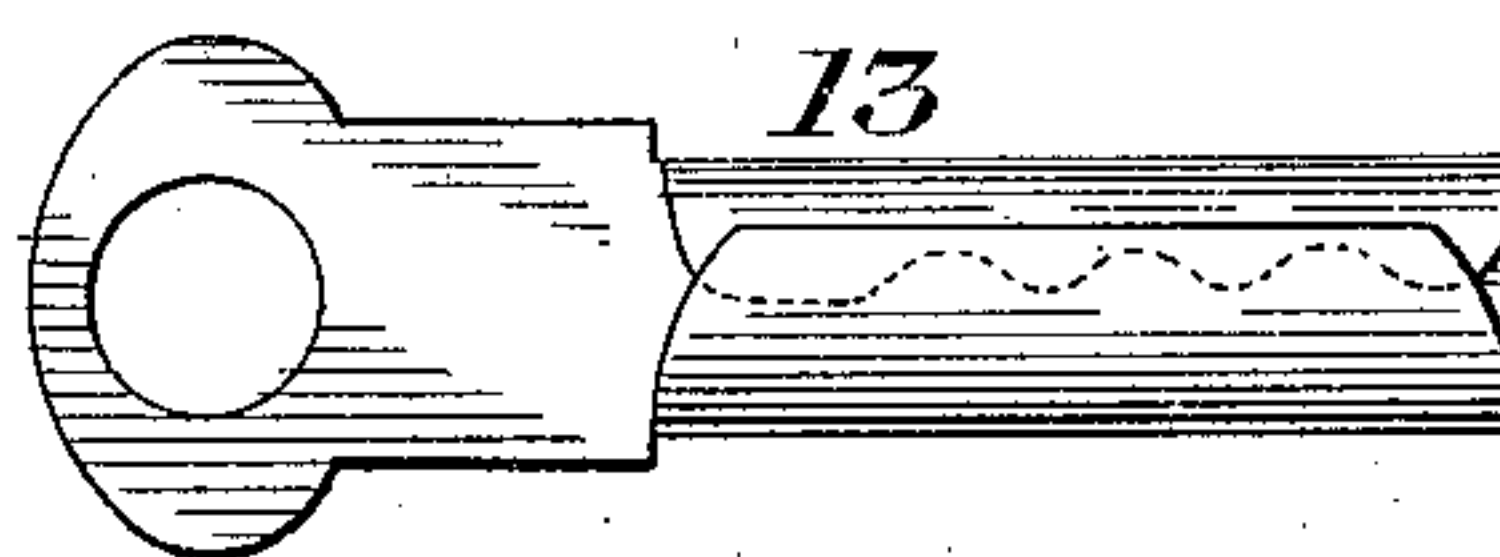
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

FREDERICK W. SCHROEDER, OF LONDON, ENGLAND.

## PADLOCK.

No. 844,412.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Original application filed November 15, 1905, Serial No. 287,499. Divided and this application filed April 23, 1906. Serial No. 313,196.

*To all whom it may concern:*

Be it known that I, FREDERICK WILLIAM SCHROEDER, a subject of the King of Great Britain, residing at London, county of London, England, have invented a new and useful Improvement in Padlocks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal section of a padlock embodying my invention. Fig. 2 is a transverse section on the line II II of Fig. 1, and Fig. 3 is a side view of the key.

This application is a division of my application Serial No. 287,499, filed November 15, 1905.

The object of the invention is to provide a padlock with means for locking both the front and heel ends of the shackle, and also to improve the general construction of the padlock.

With these objects in view my invention consists in certain novel features of construction, arrangement, and combination of parts, all substantially as hereinafter described, and pointed out in the appended claims.

In the drawings the numeral 2 designates the casing of the padlock, which is open at its ends and in which a barrel or cylinder 3 is concentrically and removably contained. This barrel is provided with sockets 4, in which are supported tumblers 5, which are arranged to engage in locking position with seats 6 in the casing 2. This cylinder or barrel is formed with an external thread 8, adapted to be engaged with the thread 9 on the casing or shell. The end of the cylinder opposite the keyhole is provided with shoulders 10 and slots 11, adapted to receive the ends of the shackle 12, which are formed with screw-threads for engagement with the thread 9 of the casing or shell.

13 designates the key which is preferably used in this padlock and which forms the subject-matter of a copending application, Serial No. 284,983, filed October 30, 1905.

14 is the shoulder in the socket 4, which seats the tumbler-spring 16.

When the parts are in locking position, as shown in Fig. 1, the shell or casing cannot be rotated to free the shackle; but when the tumblers are withdrawn from locking engagement by means of the key the casing can be turned until it is free of the shackle.

While the threads on the casing and shackle are preferably continuous, as shown in Fig. 1, it is obvious that they may be mutilated, if desired, so that the shackle may be freed by a partial rotation of the casing. The grooves for the ends of the shackle are preferably completely filled thereby, so that its threads will engage with the thread on the casing simultaneously with the engagement of thread on the remainder of the barrel with the thread on the casing.

The advantages of my invention consist in the simplicity of the construction and arrangement and the ease with which the parts can be assembled.

What I claim is—

1. In a padlock the combination of a shackle, a relatively movable and concentrically-arranged shell and barrel, locking means carried by the shell adapted to engage with the shackle and retractable tumblers carried by the barrel; substantially as described.

2. In a padlock the combination of a shackle having threads, and a relatively movable and concentrically-arranged shell and barrel, said shell provided with interior threads adapted to engage the threads on the shackle; substantially as described.

3. In a padlock the combination of a shackle, a relatively movable and concentrically-arranged shell and barrel, interior threads on the shell adapted to engage corresponding threads on the shackle, and longitudinal grooves in the barrel adapted to receive the ends of the shackle; substantially as described.

4. In a padlock the combination of a shackle, a relatively movable and concentrically-arranged shell and barrel, interior threads on said shell adapted to engage corresponding threads on the barrel and on the ends of the shackle and longitudinal grooves in the barrel adapted to receive the ends of the shackle; substantially as described.

5. In a padlock the combination of a shackle, a relatively movable and concentrically-arranged shell and barrel, interior threads on the shell adapted to engage corresponding threads on the barrel and on the ends of the shackle and longitudinal grooves in the barrel adapted to receive the ends of the shackle, and means for locking the barrel against rotation; substantially as described.

6. In a padlock the combination of a shackle, a relatively movable and concentrically-arranged shell and barrel, interior threads on the shell adapted to engage corresponding threads on the barrel and on the ends of the shackle, and means for locking the barrel against rotation; substantially as described.

trically-arranged shell and barrel, the interior threads on the shell adapted to engage corresponding threads on the barrel and on the ends of the shackle and longitudinal grooves  
5 in the barrel adapted to receive the ends of the shackle, and retractable tumblers carried by the barrel; substantially as described.

In testimony whereof I have hereunto set my hand.

FREDERICK W. SCHROEDER.

Witnesses:

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