

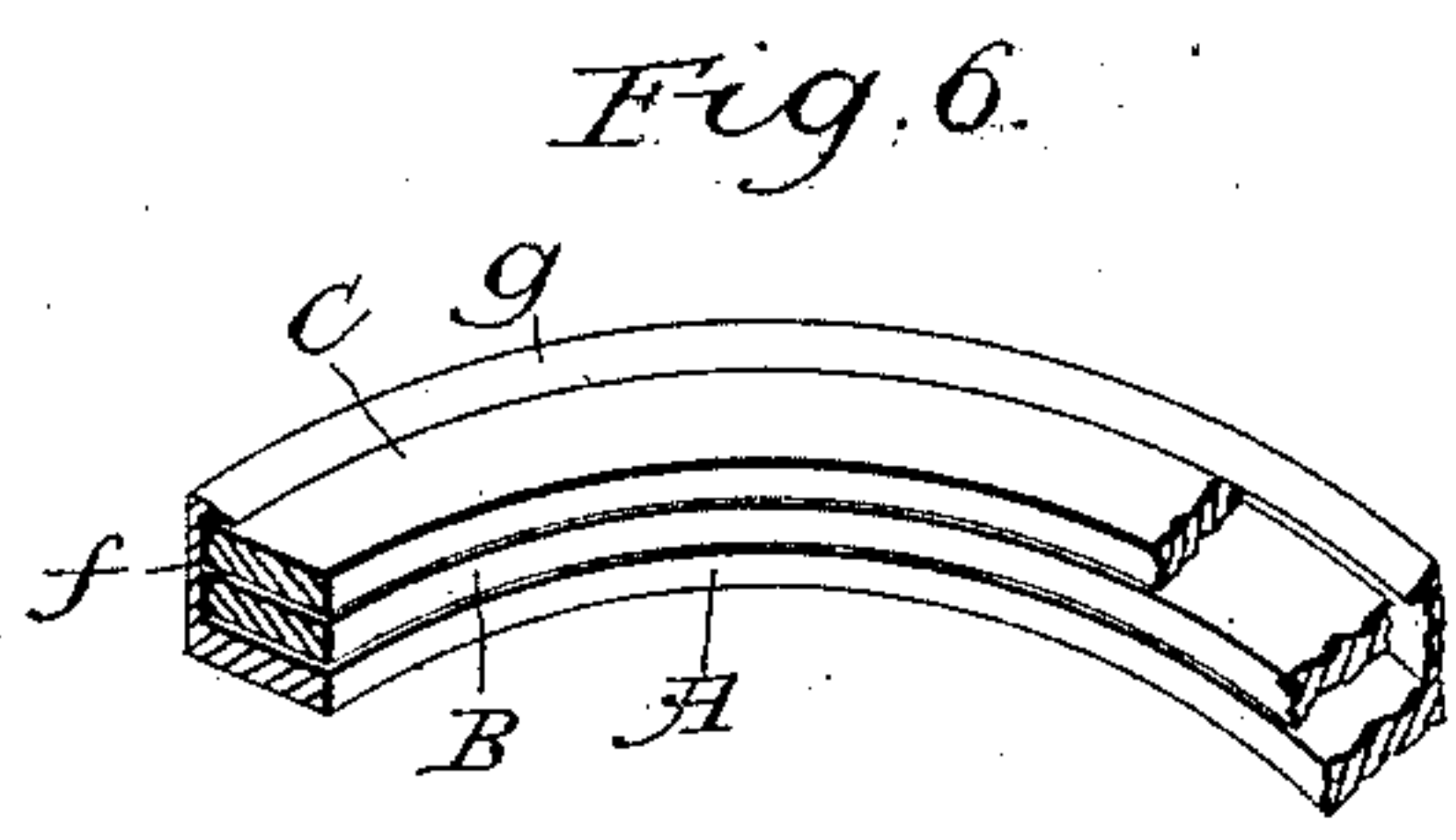
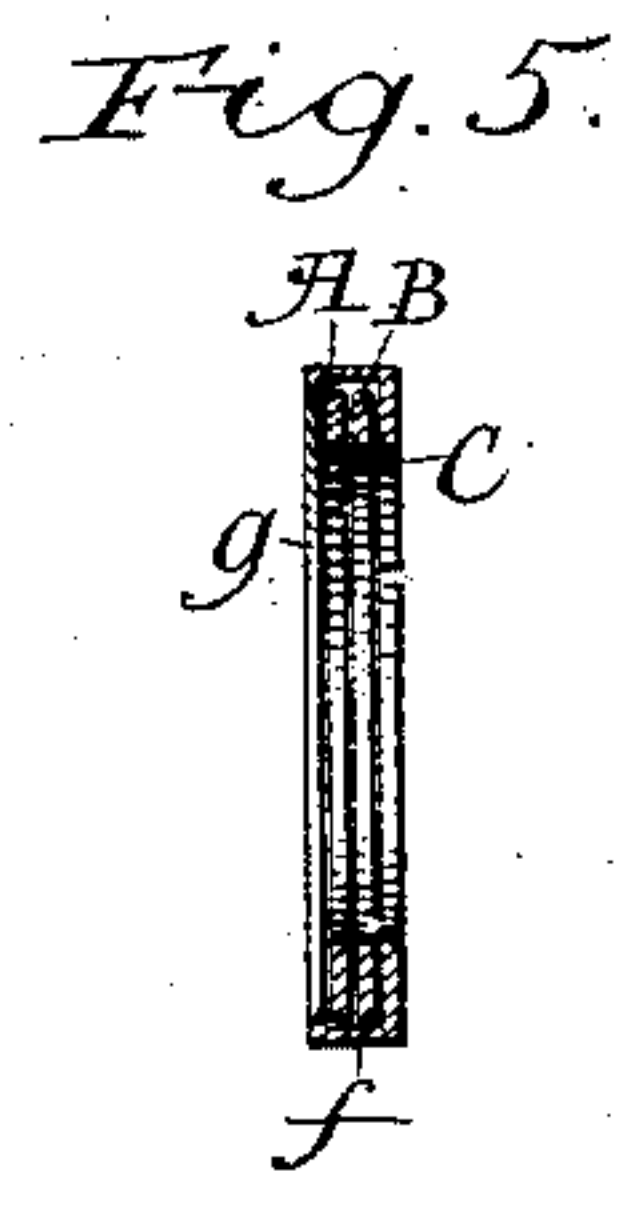
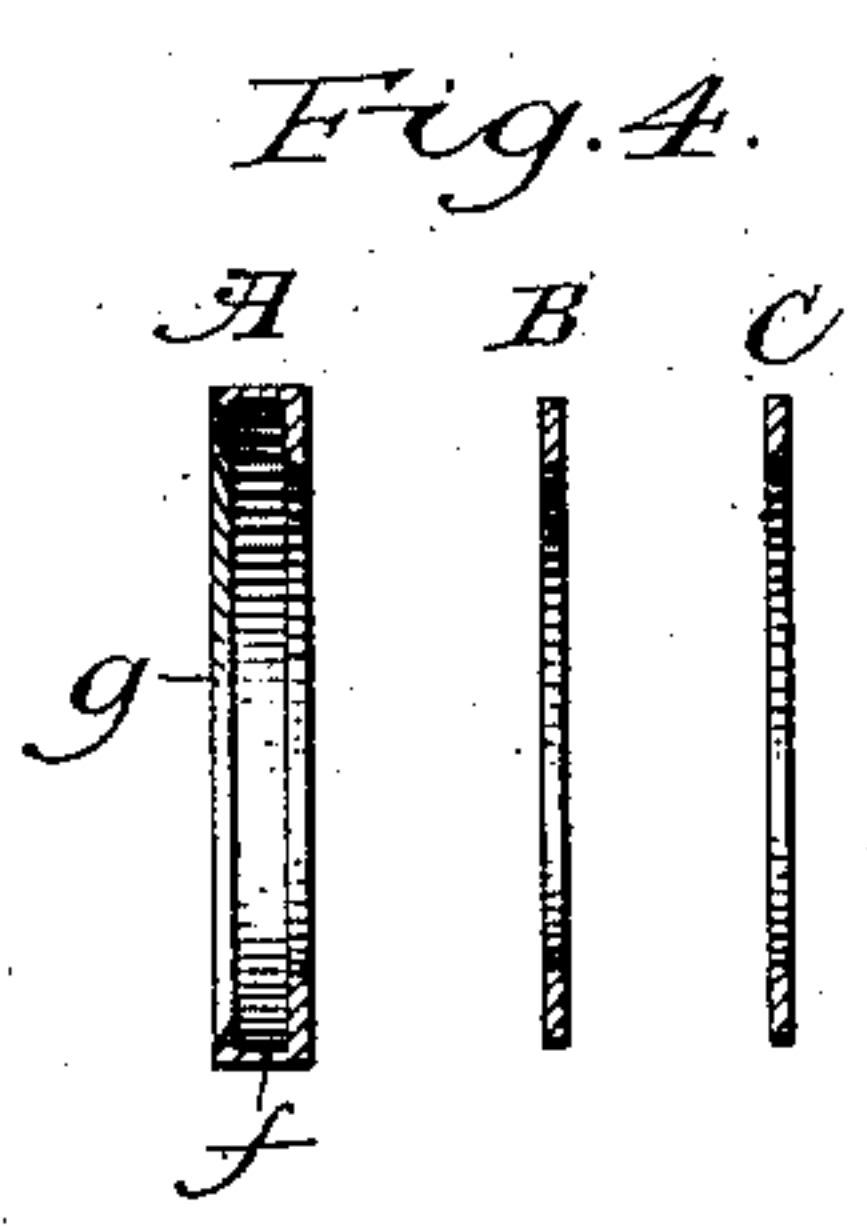
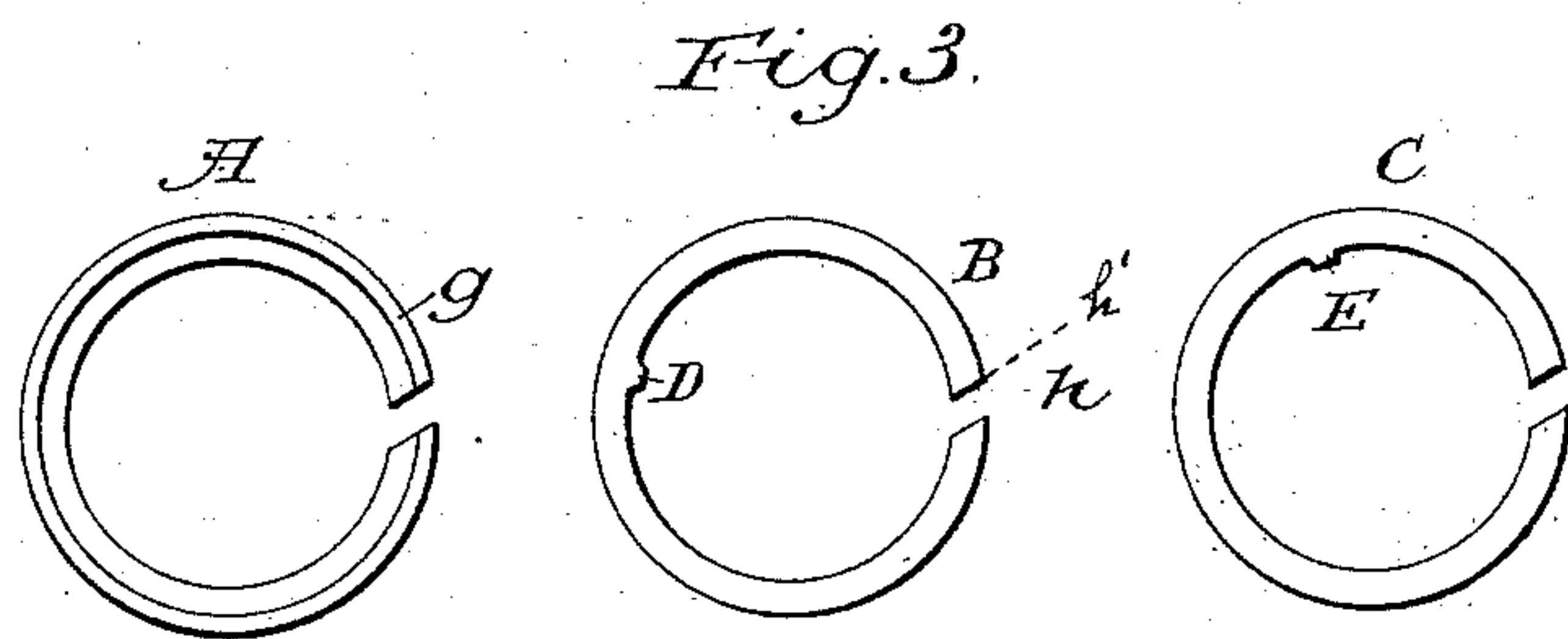
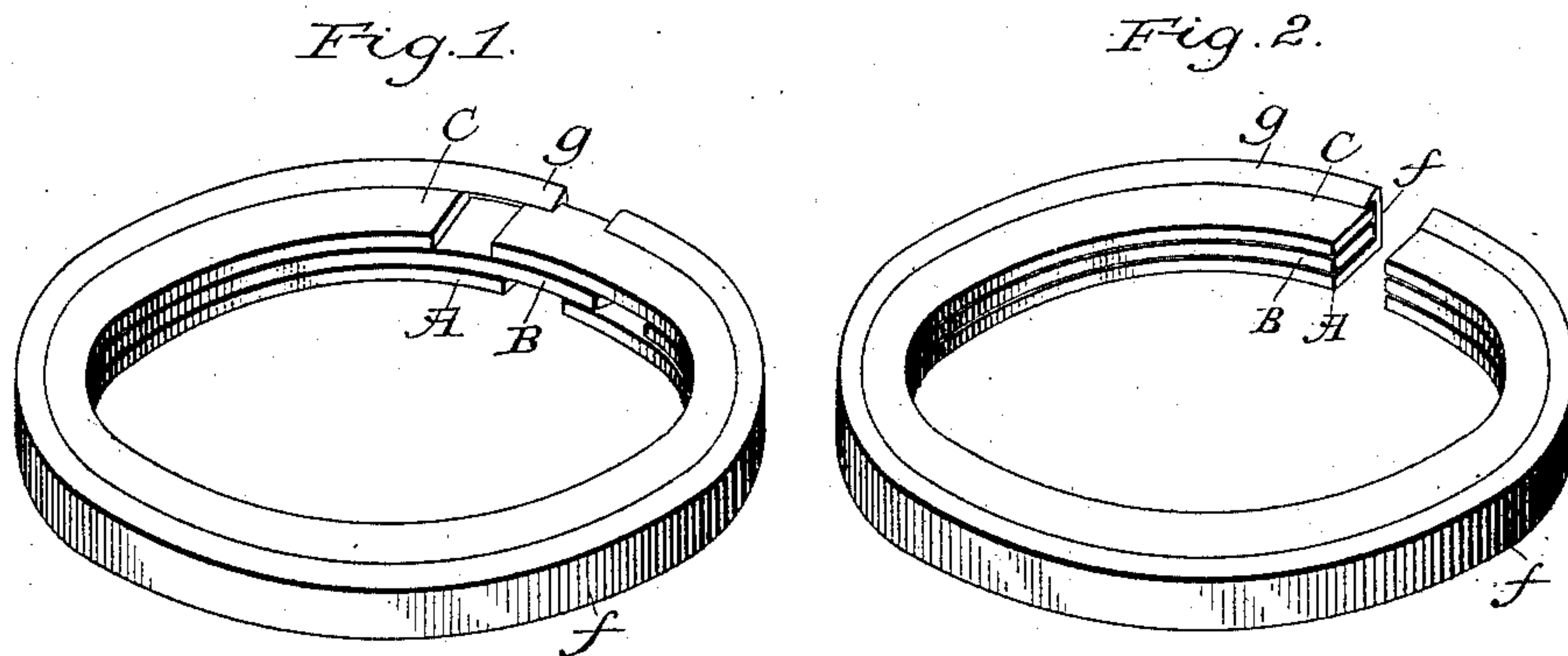
(No Model.)

T. W. HENRY.

KEY RING.

No. 338,268.

Patented Mar. 23, 1886.



Witnesses:
Thos. Whitman
J. O. Christian

Inventor.
T. W. Henry

UNITED STATES PATENT OFFICE.

THEODORE W. HENRY, OF SANFORD, FLORIDA.

KEY-RING.

SPECIFICATION forming part of Letters Patent No. 338,268, dated March 23, 1886.

Application filed December 29, 1885. Serial No. 187,058. (No model.)

To all whom it may concern:

Be it known that I, THEODORE W. HENRY, a citizen of the United States, residing at Sanford, in the county of Orange and State of Florida, have invented a new and useful Key-Ring, of which the following is a specification.

My invention relates to improvements in key-rings in which three concentric rings, as hereinafter described, form the only parts; and the objects of my improvement are, first, to provide a combination key-ring; second, to afford facilities for putting on or threading keys and taking keys off freely after combination is set or opened without any additional manipulations; third, to provide a key-ring that is simple in arrangement while not easily disordered, and easily opened, yet perfectly secure from accidental openings; and, fourth, to provide a combination key-ring whose combination can only be set or opened by applied force, as described below, and which cannot be set or opened by the action of any keys threaded thereon, owing to the peculiar position and arrangement of certain slots and projections, also described below. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of the complete ring as it appears when closed; Fig. 2, the same when opened or when combination is set, both views enlarged. Fig. 3 is a surface view of each of the three parts; Fig. 4, transverse sections of the three parts; Fig. 5, transverse section of the three parts in position, (Figs. 3, 4, and 5 are actual size;) and Fig. 6, a sectional view of the three parts in position enlarged.

Similar letters refer to similar parts throughout the several views.

The three rings A *f g*, B, and C constitute the complete ring, two of which, B and C, are of same dimensions and precisely alike, except in one particular, as hereinafter specified.

The rings are to be made of a non-rusting metal. They are of a uniform inside diameter—viz., one (1) inch. Width of B and C, one-eighth of an inch; width of A, five thirty-seconds of an inch; thickness of A, B, and C, one twenty-fourth of an inch; outside diame-

ter of B and C, one and one-fourth inch; outside diameter of A, one and five-sixteenths inch. The right to manufacture other sizes is reserved.

A is a flat ring, of dimensions given above, extending about at right angles to flat surface, and a vertical continuation of the outside edge of which is a sheath, *f*, one thirty-second of an inch thick and wide enough to inclose B and C snugly with the aid of the flange *g*, which is one thirty-second of an inch thick where it connects with *f*, and extends one twenty-fourth of an inch over surface of C, where it tapers to a point or edge. Each ring has a slot cut in it one-eighth of an inch wide and at an angle of sixty degrees to an extended radius. (See broken lines B *h'*, Fig. 3.) B and C have a slight projection on their inside edges, (see Fig. 3,) D and E, at different points, as indicated, to facilitate turning or revolving them.

As will be seen from drawings, A *f g* incloses B and C, the latter two to fit within former sufficiently tight to require a gentle force applied to projections D and E to turn or revolve them. B and C by this force thus applied can be turned or revolved until the three slots are together, when the combination is set or opened, as shown in Fig. 2. Similar turns until the slots of B and C are at different points of the ring A other than the slotted portion closes the ring.

I am not aware that prior to my invention key-rings have been made consisting of concentric rings slotted as above described.

I therefore claim as my invention and desire to secure by Letters Patent—

The key-ring consisting of three cut rings, two of which are flat and of the same diameter and provided with projections on the inside, and the third ring or sheath inclosing the other two, as shown, and tightly binding them against accidental displacement, all substantially as described.

T. W. HENRY.

Witnesses:

WILBUR MCCOY,
THOS. WHITEMAN.