

(Model.)

W. H. A. DAVIDSON.

PUZZLE RING.

No. 367,896.

Patented Aug. 9, 1887.

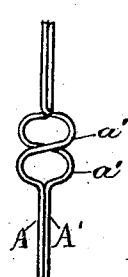


Fig. 1.

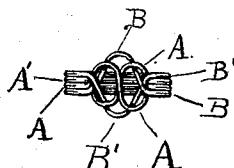


Fig. 2.

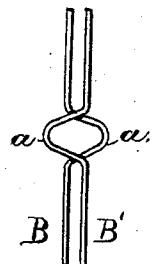


Fig. 3.

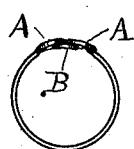


Fig. 4.

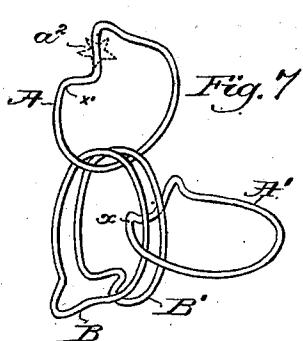


Fig. 5.

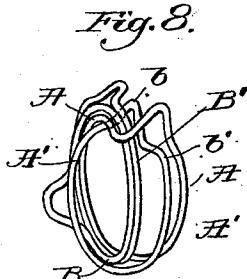


Fig. 7.

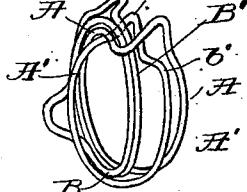


Fig. 8.

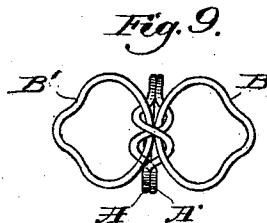


Fig. 9.



Fig. 10.



Fig. 11.

WITNESSES

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# UNITED STATES PATENT OFFICE.

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## PUZZLE-RING.

SPECIFICATION forming part of Letters Patent No. 367,896, dated August 9, 1887.

Application filed March 29, 1887. Serial No. 232,847. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. A. DAVIDSON, of Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement 5 in Puzzle-Rings, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to a novel puzzle, 10 which, when put together or completed, forms a ring.

My improved puzzle-ring is composed of four independent loops, preferably of wire, each loop being made from a straight strip or 15 piece of metal bent and soldered or otherwise fastened together. Two of the wires of which the loops are formed are each provided with a bend substantially at a right angle to the length of the said wire before the said wire is 20 jointed to form the loop, while the remaining two wires have a double bend. The four loops constituting the ring are loosely connected together, and one of the loops having a double bend has soldered or otherwise secured to it a 25 star or other ornamentation, which, when the loops are put together to form a ring, occupies a position at the center of the ring, or where the stone is found in ordinary seal-rings.

Figure 1 shows my improved puzzle-ring 30 completed, the star or ornamentation being omitted to enable the positions which the different loops occupy in the completed ring to be more clearly seen; Fig. 2, a side view of Fig. 1. Fig. 3 shows two strips of wire provided with a double bend. Fig. 4 shows two 35 strips of wire provided with a single bend. Fig. 5 shows a single double-bent strip. Fig. 6 shows a single-bent strip. Fig. 7 shows the position the loops occupy when the first step 40 is taken toward completing the ring; Fig. 8, the second position; Fig. 9, the third position, and Fig. 10 the fourth position.

The completed ring shown in Fig. 1 is composed of four loops, A, A', B, and B', the said 45 loops being preferably made from straight pieces or strips of metal, preferably in the form of a wire. The straight strips or pieces of wire from which the loops B B' are made are provided with a single bend, a, substantially 50 at a right angle to the length of the said strip, while the straight strips, from which the loops

A A' are made, have a double bend, a'. The bent strips referred to are rounded and have their ends soldered or otherwise fastened together to form the loops A, A', B, and B', the 55 said loops being loosely connected together. In practice the loop A at its bent portion (see Fig. 7) has secured to it a star, a'', or other ornamentation, which may serve to mark or indicate the loop which is to be held by the 60 operator when starting to complete the puzzle-ring.

To put the ring together, the operator holds the loop A in one hand—for instance, the left hand—between the thumb and forefinger, with 65 the bent portion a' at top. The loops B and B' are then shaken or otherwise arranged so that their bent portions a are farthest away from the lower part of the loop A, the said bent portions a pointing in opposite directions, 70 as shown in Fig. 7. The operator then grasps the loop A' in his right hand, and, lifting it and the loops B B', places the point a of the loop A' in contact with the point a' of the loop A where the loops A A' are held firmly 75 between the thumb and the finger of the left hand. The double bends a' of the said loops A A', crossing each other, form substantially a figure 8, one half, b, (see Fig. 8,) of the double bend of the loop A' extending under the loop 80 A. It will be noticed in Fig. 8 that the loops B B' are shut within a closed circle formed by one half of the double bend of each loop A A'. The other half of the double bend of the loops A A' do not cross each other, but have an 85 opening, b', between them. The operator, continuing to grasp the loops A A', as described, or where the said loops cross each other, as stated, then turns the loops B B' in 90 opposite directions and substantially at right angles to the loops A A', the bent portion a of each loop B B' pointing downward, as shown in Fig. 9. The operator now takes the loop B' and turns it toward the right, the said loop being turned until the bent portion a has 95 passed between the two contiguous but not overlapping parts of the loops A A' and below the point where the double bends of the loops A A' cross each other. (See Fig. 10.) The loop B is then turned toward the right 100 until the bent portion a of the said loop is also below the point where the double bend of the

loops A A' cross each other. (See Fig. 10.) The bent portion *a* of both loops B B' are now below the point where the double bend of the loops A A' cross each other, and the operator 5 then brings the bend *a* of the loop B below the bend *a* of the loop B', as shown in Fig. 10, and when in this position the ring is completed and brought into the form shown in Fig. 1 by turning the loop B down and bringing it in 10 contact with the loop A.

My improved puzzle-ring when put together in the form shown in Fig. 1 may be worn as an ornament the same as an ordinary ring, the star taking the place of a stone in an ordinary 15 seal-ring.

I claim—

1. As an improved article of manufacture, a puzzle-ring comprising four loops connected together, two of said loops being provided

with a single bent portion, *a*, and the other 20 two having a double bent portion, *a'*, one of the said double loops being marked to guide the operator in putting the ring together, substantially as described.

2. As an improved article of manufacture, 25 a puzzle-ring comprising four loops connected together, two of said loops being provided with a single bent portion, *a*, and the other two having a double bent portion, *a'*, one of the said double loops being provided with an 30 ornamentation, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM H. A. DAVIDSON.

Witnesses:

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JAS. H. CHURCHILL.