

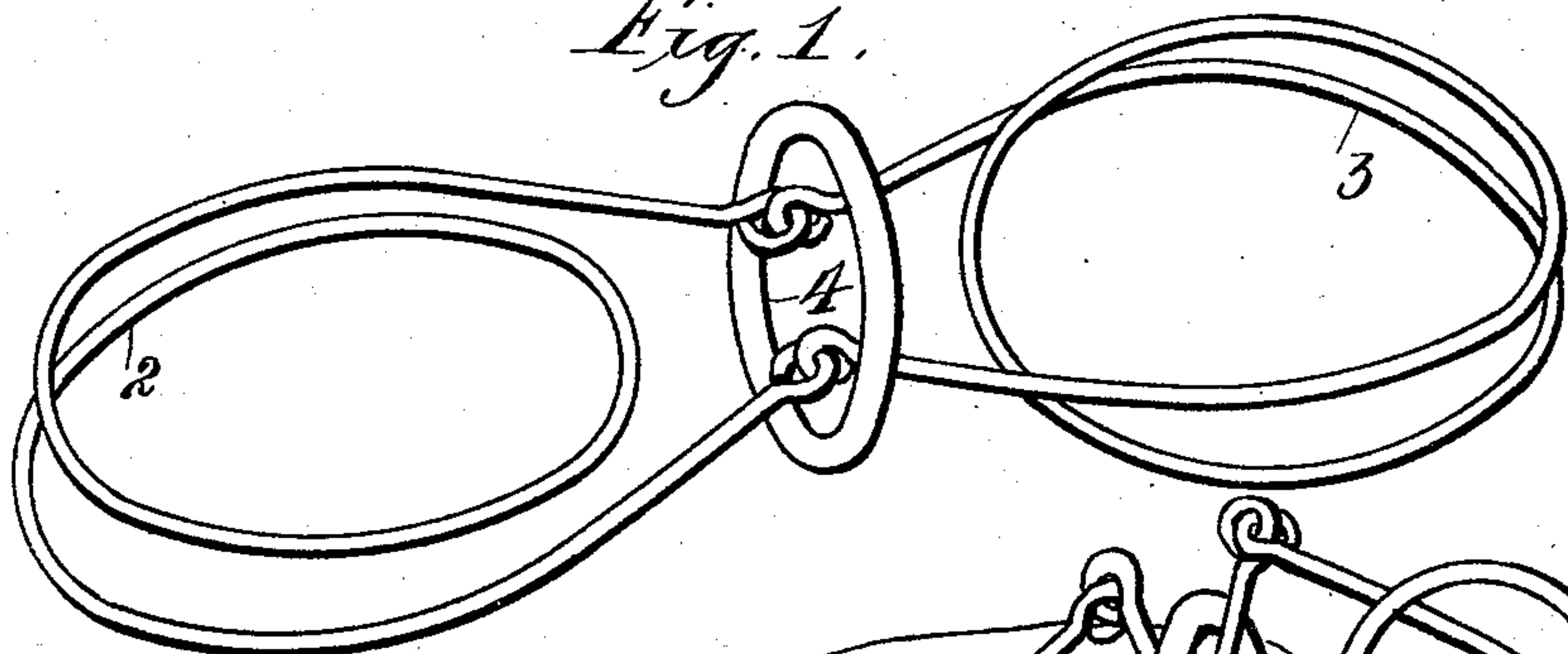
(Model.)

H. E. NELSON.  
PUZZLE.

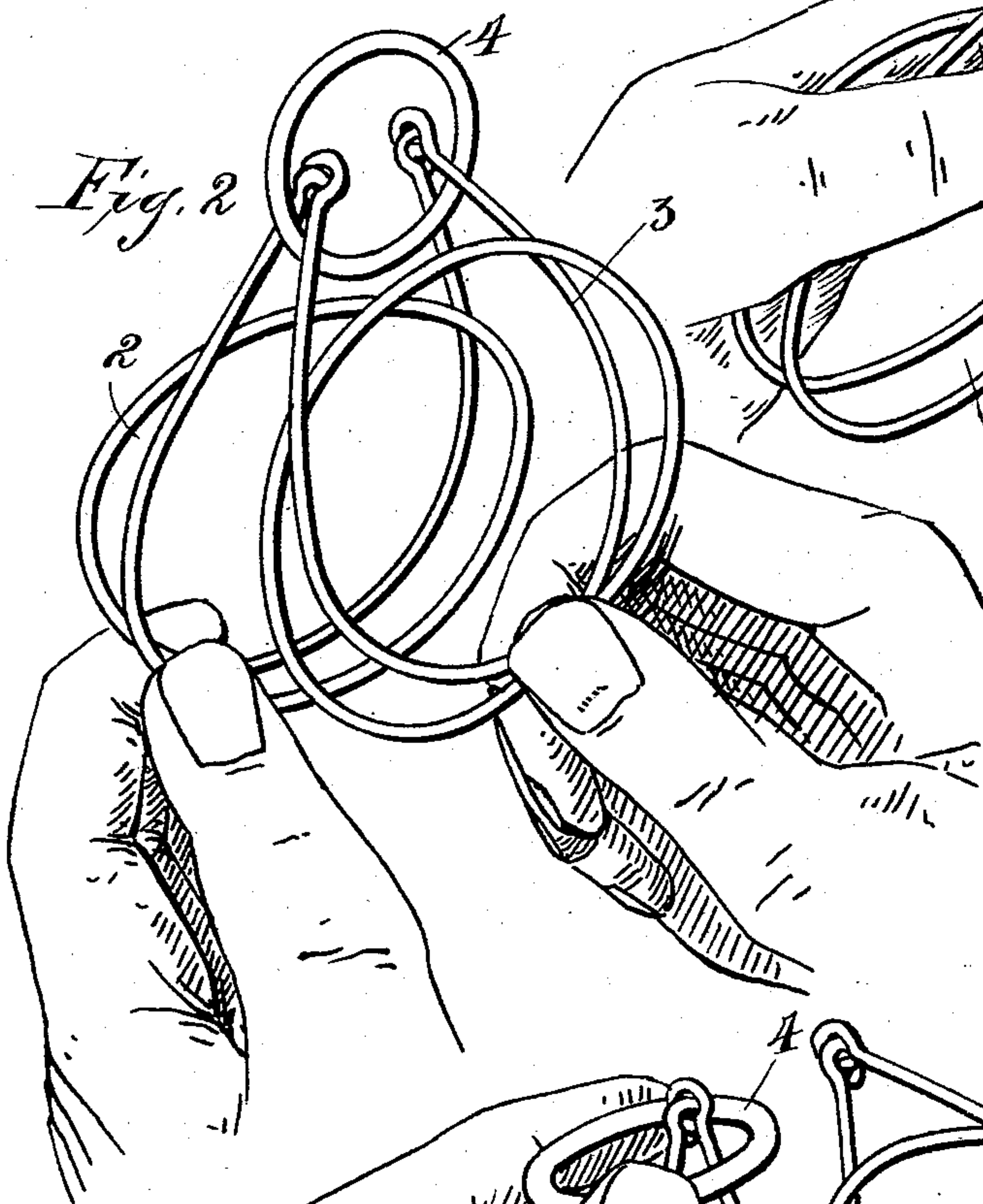
No. 543,188.

Patented July 23, 1895.

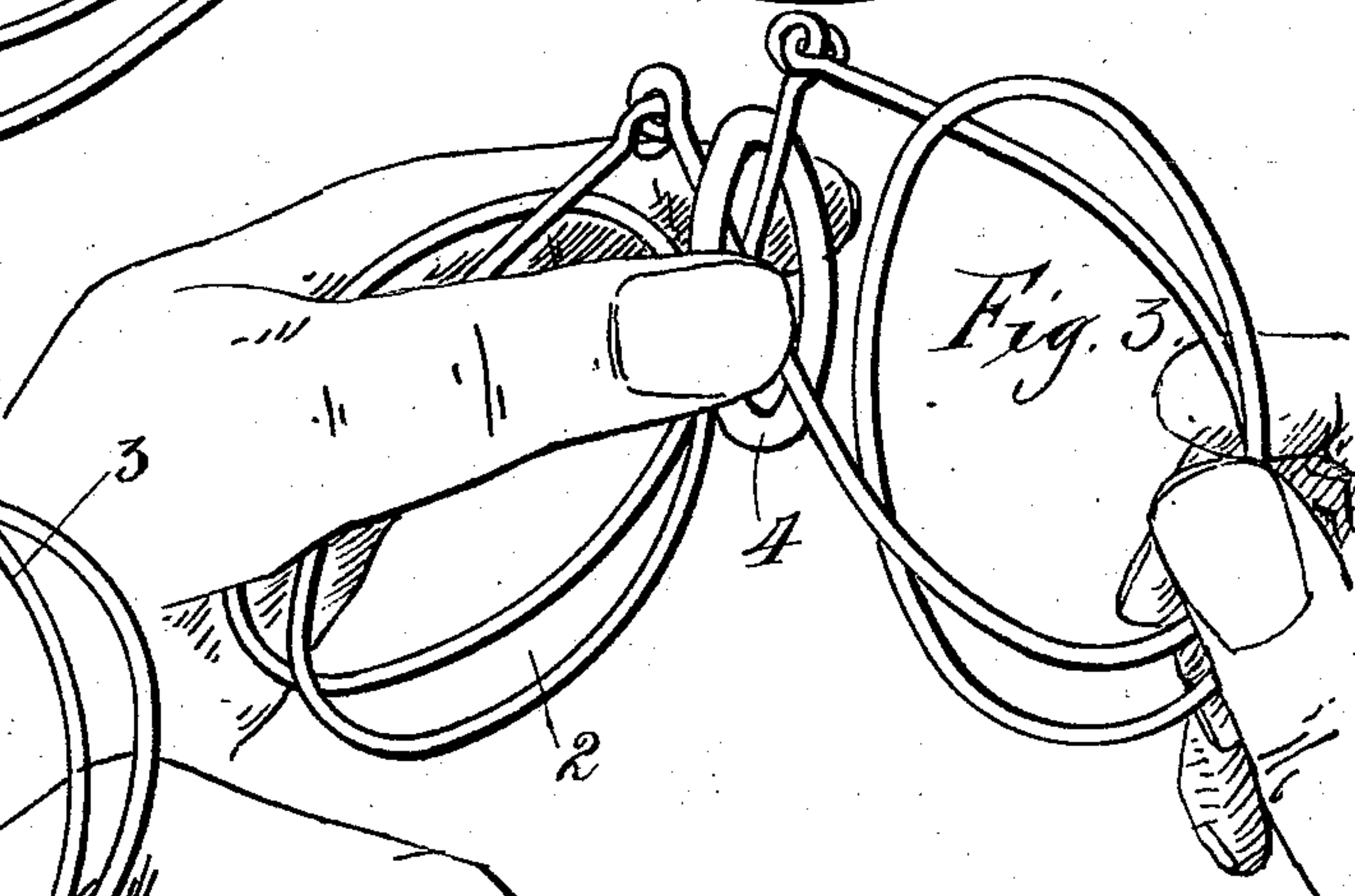
*Fig. 1.*



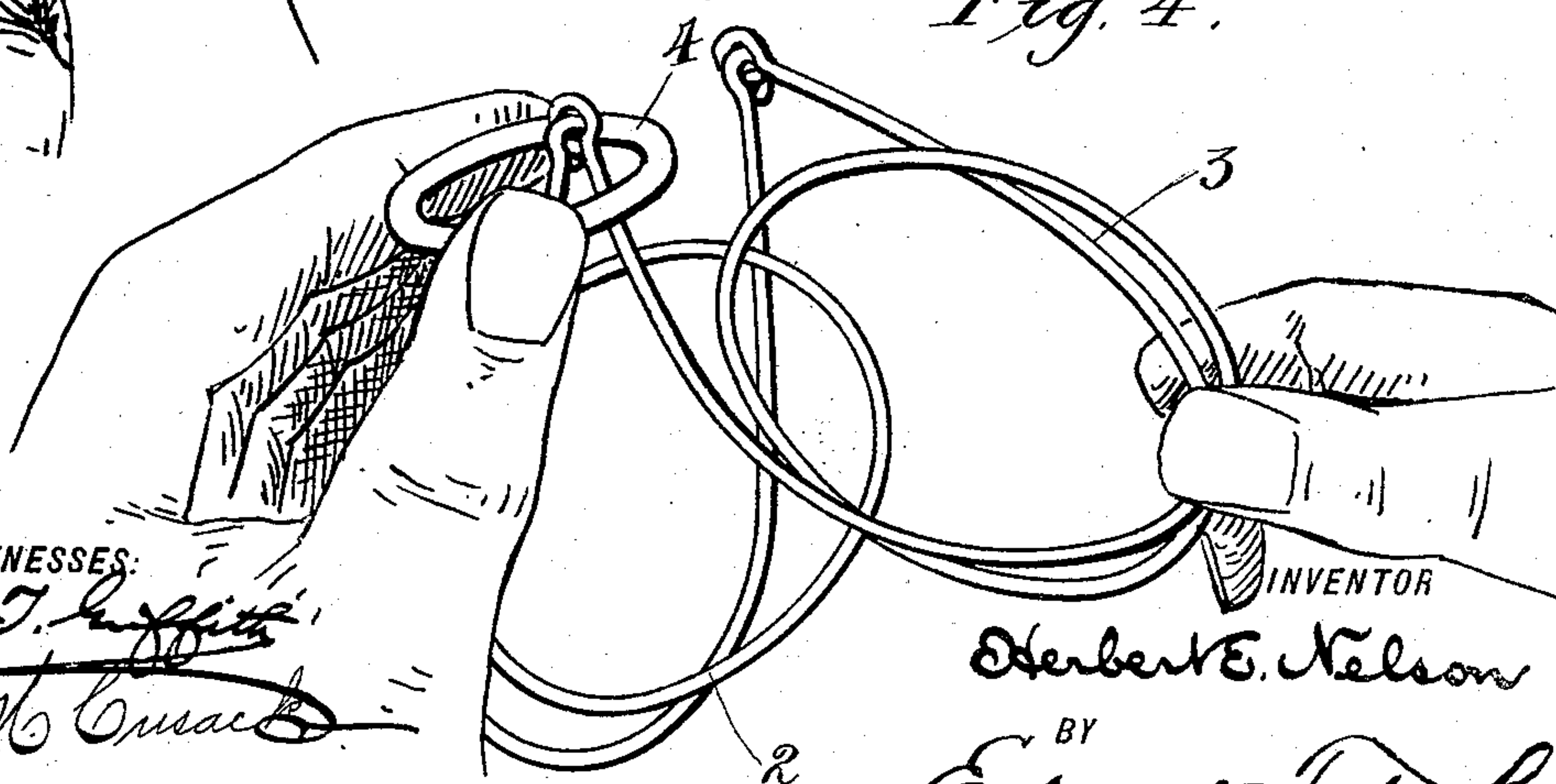
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



WITNESSES:

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BY

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# UNITED STATES PATENT OFFICE.

HERBERT E. NELSON, OF BROOKLYN, NEW YORK.

## PUZZLE.

SPECIFICATION forming part of Letters Patent No. 543,188, dated July 23, 1895.

Application filed February 27, 1896. Serial No. 539,863. (Model.)

*To all whom it may concern:*

Be it known that I, HERBERT E. NELSON, a citizen of the United States, and a resident of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Puzzles, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar numerals of reference indicate corresponding parts in all the figures.

My invention relates to puzzles, and the object thereof is to produce a simple, neat, and ornamental device the successful manipulation of which in a certain manner, or to accomplish a certain result, is perplexing and difficult, but may be accomplished by the exercise of patience, skill, and judgment.

In the drawings forming part of this specification, Figure 1 represents my improved puzzle; Fig. 2, the first movement or position in the proper solution thereof; Fig. 3, the third position or movement in the process of solution, and Fig. 4 the last of said positions or movements.

Referring to the drawings, the puzzle, as shown in Fig. 1, consists of two pieces of spring-wire 2 and 3, each of which is curved or folded upon itself, forming a double ring or loop, and the separate ends of each piece or loop are then united by means of small loops, as clearly shown in said figure, the union being a perfectly loose and flexible one, so as to admit of the free movements of the parts in all directions. Around the connection above described and between the separate end loops, as shown in Fig. 1, is placed a ring 4, and the solution of the puzzle consists in removing this ring or replacing it in position without separating the loops or destroying the elasticity or form thereof.

As usually constructed, the end loops or rings are from three and one-half to four inches in diameter and the central ring 4 from one to one and one-quarter inches in diameter. These dimensions, however, are not essential, but simply preferred.

In the manipulation of the device to remove the ring 4 the separate or end loops or rings are taken one in each hand in the manner shown in Fig. 2, being preferably held by the thumb and forefinger, as shown. The end

loops are then brought down to the position shown in said figure, when the ring 4 will assume the position also indicated therein. The next position of the device is that shown in Fig. 3, where, as shown, the left-hand loop or ring is almost entirely held within the hand and the ring 4 grasped by the thumb and forefinger of said hand and held, as indicated, surrounding a cross formed by the opposite side wires of each loop. From this position to that shown in Fig. 4, the last, and from which the ring 4 is removed, it is carried around the left-hand loop to the required position.

The operation depends entirely upon the skill and manipulation of the operator. This result can, however, be reached without an over amount of exertion, and when once accomplished the process of replacing the ring 4 in the original position will be readily apparent. During the entire operation the position of the right hand is not changed, it retaining throughout the position shown in Figs. 2, 3, and 4.

Having fully described my invention, I claim, and desire to secure by Letters Patent, the following:

1. A puzzle, consisting of two pieces of spring wire, each of which is curved or folded upon itself, forming a double ring or loop, the separate ends of each piece or loop being united by means of rings or loops formed thereon, and a ring surrounding the said ends at the point of union, substantially as shown and described.

2. The combination, in a puzzle, of two divided loops or links, as 2 and 3, each being composed of a single piece of spring wire folded or curved upon itself, and the separate ends being united as shown, and a ring, as 4, surrounding the joint or point of union, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 25th day of February, 1895.

HERBERT E. NELSON.

Witnesses:

PERCY T. GRIFFITH,  
L. M. MULLER.