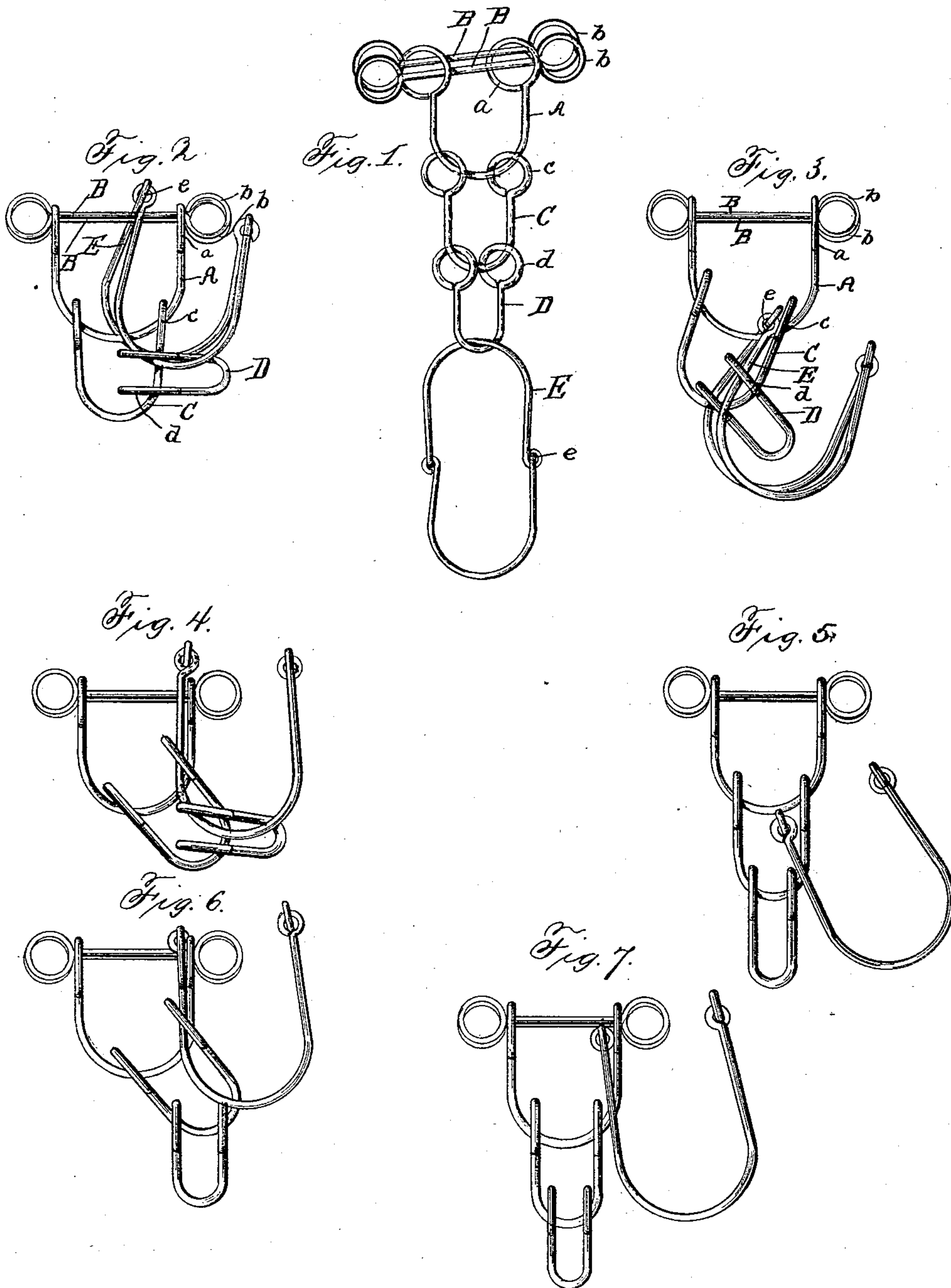


(No Model.)

B. W. CHARSHÉE.  
PUZZLE.

No. 428,455.

Patented May 20, 1890.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

BENNETT W. CHARSHÉE, OF CUMBERLAND, MARYLAND.

## PUZZLE.

SPECIFICATION forming part of Letters Patent No. 428,455, dated May 20, 1890.

Application filed September 13, 1889. Serial No. 323,843. (No model.)

*To all whom it may concern:*

Be it known that I, BENNETT W. CHARSHÉE, a citizen of the United States, residing at Cumberland, in the county of Alleghany and State of Maryland, have invented certain new and useful Improvements in Puzzles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists of a puzzle comprising three or more U-shaped loops of wire with a ring formed in each end and each succeeding loop strung upon the bow portion of the preceding loop, two cross-bars passing through the rings of the upper loop and having a similar ring at each end, and with which loops and cross-bars is a large ring made in two semicircular parts, which in working out the puzzle is to be worked off and on the loops through their rings and over the ends of the cross-bars, as hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view, and the different operations to be performed in taking the larger ring off the loops are represented in six different views.

A represents the large loop; B B, the cross-bars; C, the smaller loop; D, the small loop, and E the large ring.

*a* represents the rings of the large loop A; *b b*, the rings of the cross-bars B B; *c*, the rings of the smaller loop C, and *d* the rings of the small loop D. The cross-bars B B pass through the rings *a* of large loop A and have their rings *b b* formed on the ends outside of the rings *a* of loop A, and they are large enough to prevent the cross-bars from being withdrawn. The loops A, C, and D are connected together by the bow portion of loop A passing through the rings *c* of the smaller loop C and the bow portion of loop C passing through the rings *d* of the small loop D, and their rings prevent them from withdrawing. The large ring E is made in two semicircular

halves, which are jointed together at *e*, so that it can be doubled into the form of a semicircle.

The operation is as follows: To take the large ring E off, the cross-bars are held in the left hand. The large ring E is presented by the other hand folded, one end passed through ring *d*, over rings *a* and *b b*, which brings it to the position represented in Fig. 2; then through *a* and over *b b* to the position shown in Fig. 3; then through *c* and *a* and over *b b* to the position shown in Fig. 4; then over *a* and *b b*, which removes it from the small loop D, as shown in Fig. 5; then through *c*, over *a* and *b b*, to the position shown in Fig. 6; then through *a* and over *b b*, which removes it from loop C, as shown in Fig. 7; then through *a* and over *b b*, back through *a*, and off. To put the ring on, these operations are reversed—that is to say, it is passed through *a* and over *b b*, which places it upon the loop A; then through *c* and *a*, over *b b*, back through *a*, and then over *a* and *b b*, which places it upon the loop C; then through *d* and *c*, over *a* and *b b*, back through *a*, and over *b b*, through *a*, over *b b*, and then over *a* and *b b*, and the ring is on loop D.

In working the puzzle the ring E should always be worked from the inside of the loops.

Having fully described my invention, what I claim is—

The combination of two or more loops having a ring formed in each end and each succeeding loop strung upon the bow portion of the preceding loop, cross-bars passing through the rings of the upper loop and having rings in their ends, and the large ring made in two parts and jointed together and adapted to be worked off and on the loops and over the ends of the cross-bars, substantially as specified.

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

B. W. CHARSHÉE.

Witnesses:

F. M. OFFUTT,

T. ALFRED QUAILE.