

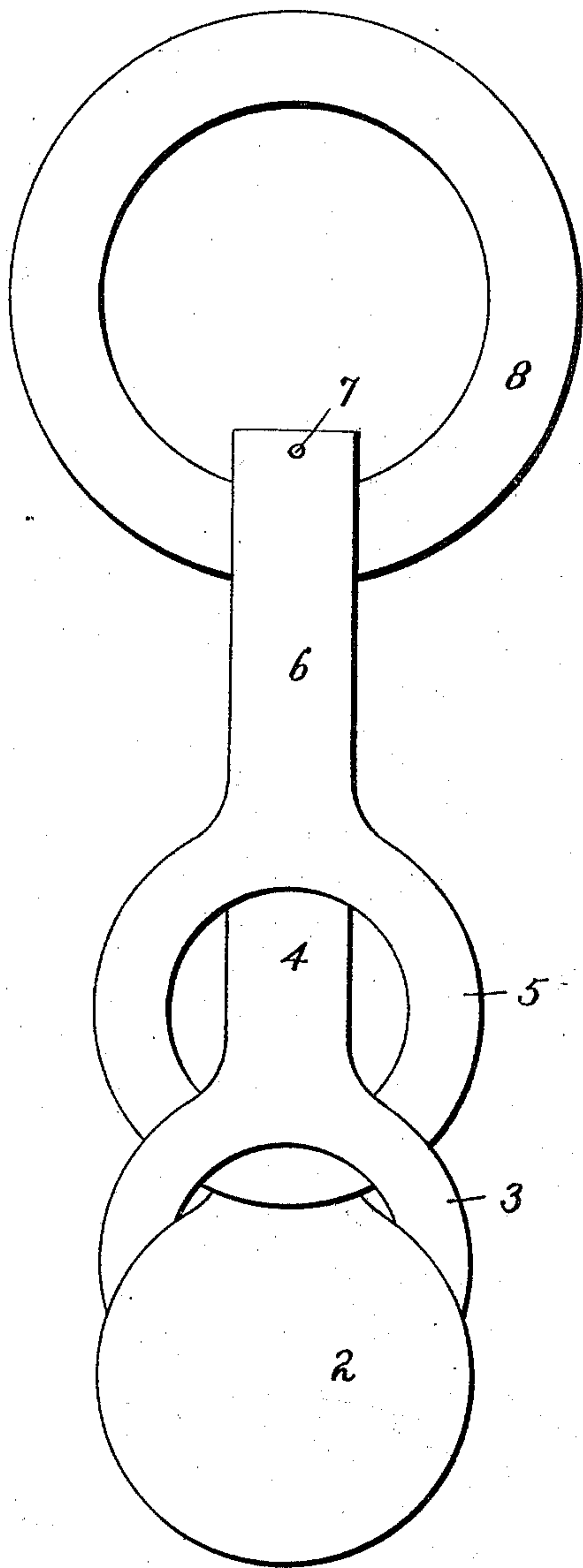
(Model.)

W. S. BATES.  
PUZZLE.

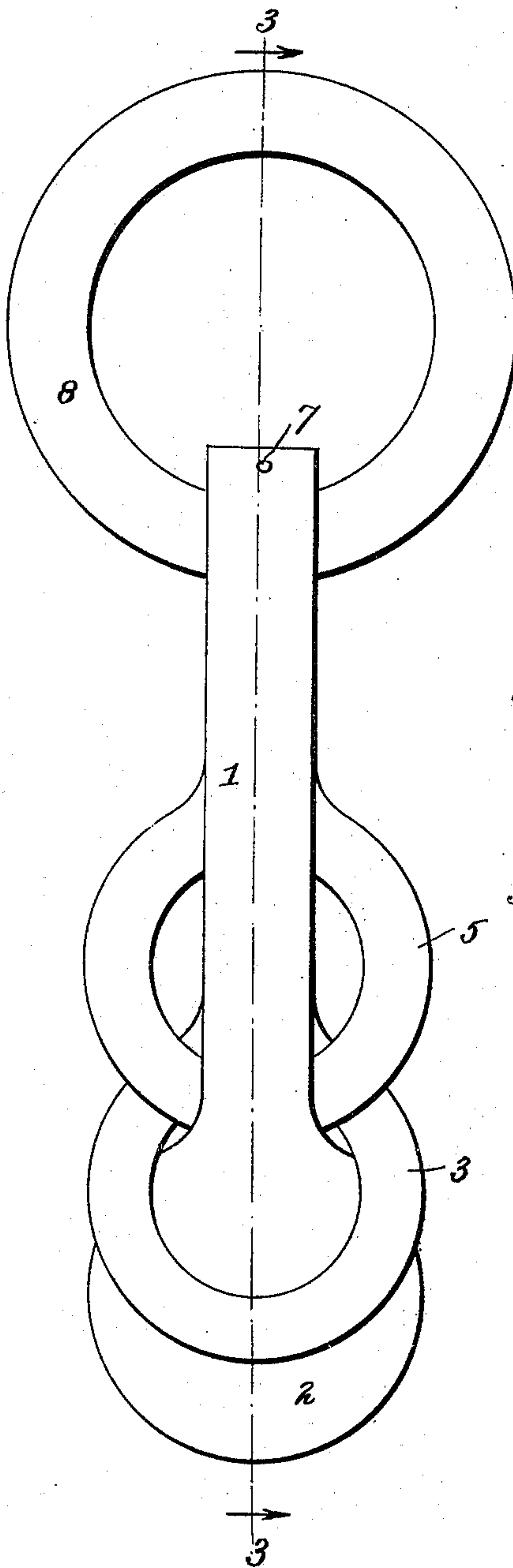
No. 537,885.

Patented Apr. 23, 1895.

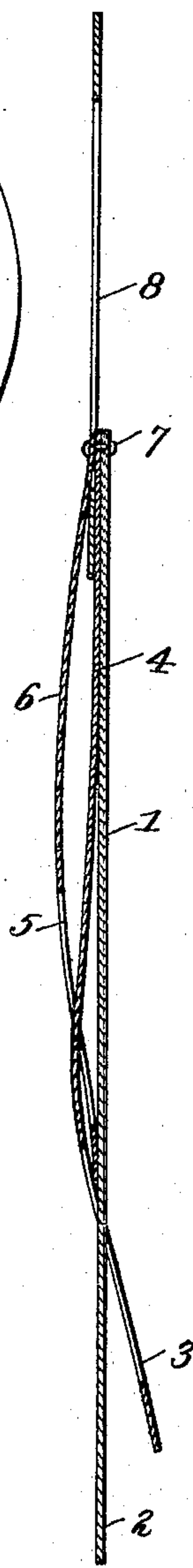
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses.*

*Wm. M. Rheem.*  
*Wm. J. Huming*

*Inventor.*

*Wm. S. Bates*

# UNITED STATES PATENT OFFICE.

WILLIAM S. BATES, OF CHICAGO, ILLINOIS.

## PUZZLE.

SPECIFICATION forming part of Letters Patent No. 537,885, dated April 23, 1895.

Application filed February 4, 1895. Serial No. 537,192. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM S. BATES, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Puzzles, whereof the following is a specification.

My invention relates to puzzles adapted to be made of sheet material, such as cardboard, or celluloid, for example.

The puzzle consists of a bar with an enlarged end, a loop encircling said bar, and having a stem, attached to the small end thereof, a second loop encircling the stem of said first loop and having a stem attached to the latter, and a ring strung upon the stem of the last mentioned loop. The puzzle is to remove said ring by working it back and forth through the loops and over the end of the bar.

In the accompanying drawings I have shown my puzzle in its simplest form.

Figure 1 is a view of one side of the puzzle. Fig. 2 is a view of the other side; and Fig. 3 is a sectional view on line 3—3 of Fig. 2.

In the drawings—1 is the bar, and 2 is the enlarged end thereof.

3 is a loop or ring encircling the bar 1, and provided with a stem 4. 5 is a second loop or ring encircling the stem 4, and provided with a stem 6. The small end of the bar and the two stems 4 and 6 are secured together by a rivet 7 or otherwise.

8 is a ring strung upon the stem 6 of the last loop.

The enlarged end of the bar should be of such size as to prevent its passing through the

loop 3, and the ring 8 should be of such size that when passed through the loops it can be swung over the enlarged end 2 of the bar.

The various parts of the puzzle may be made of different colors to give it a more attractive appearance; and the shapes and proportions of the parts, as also their number, may be varied, except as herein otherwise indicated, without departing from my invention.

The puzzle may be solved as follows, viz: Holding the puzzle in the position indicated in Fig. 3, swing the ring 8 to the right and slip it downward, then double it and pass one fold through the loop 3; pass the end 2 of the bar through this fold of the ring and draw the ring back and pass it through the loop 5. The ring is then found to be strung on stem 4 near its loop 3. Fold the ring again, pass it through loop 3, and over the end 2 of the bar, and draw it back through loop 3. It will then be found to be disengaged.

I claim—

As a new article of manufacture, a puzzle comprising, in combination, a bar with an enlarged end, a loop encircling the bar and provided with a stem secured to the small end of the bar, a loop encircling said stem and provided with a stem secured to the bar, and a ring strung upon the stem of the last loop, substantially as set forth.

WM. S. BATES.

Witnesses:

NELLIE MCKIBBEN,  
CHARLES E. PICKARE