

**No. 711,439.**

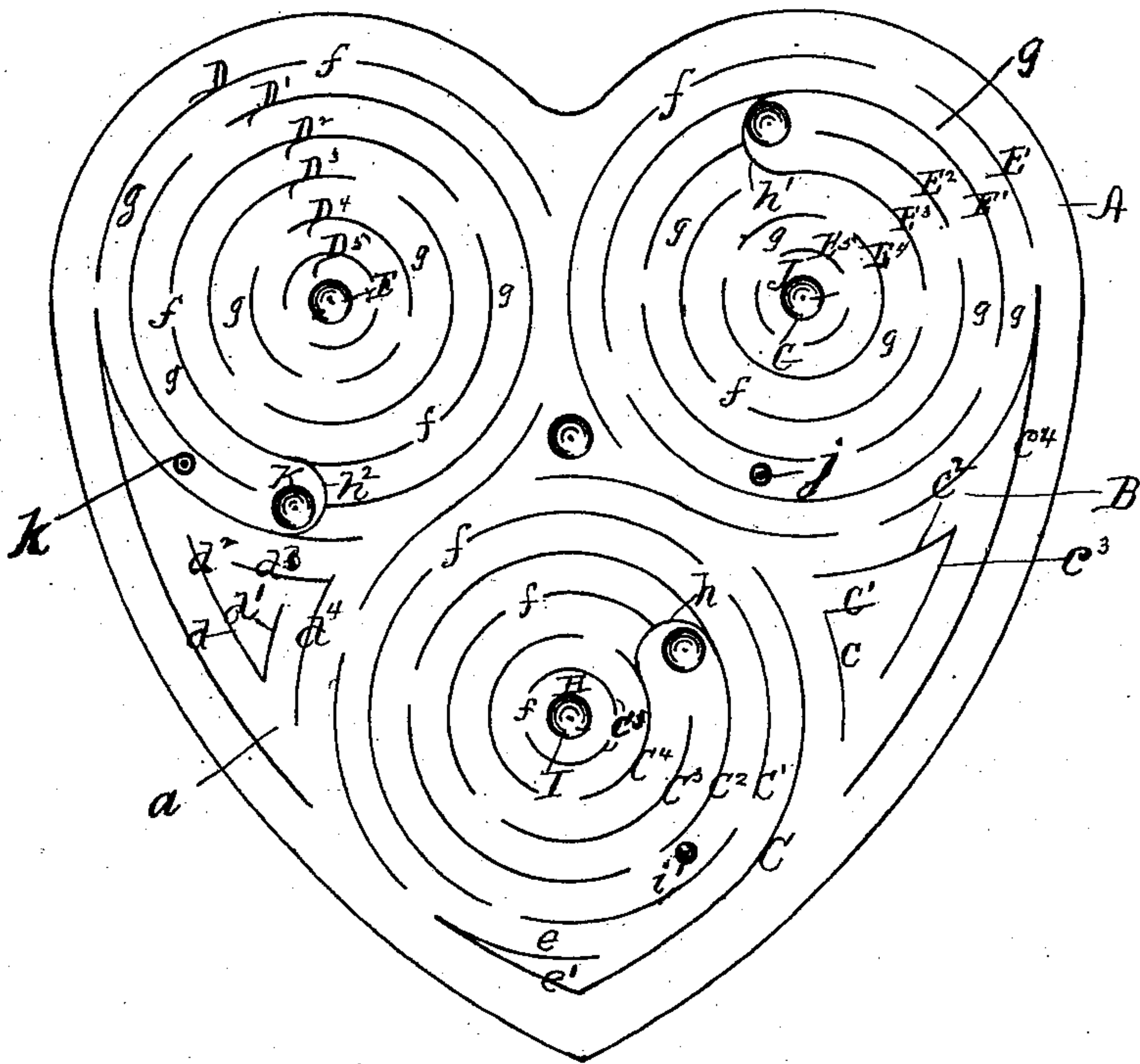
**Patented Oct. 14, 1902.**

**P. REICHARDT.**

**PUZZLE.**

(Application filed Apr. 30, 1902.)

(No Model.)



*Witnesses*

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# UNITED STATES PATENT OFFICE.

PAUL REICHARDT, OF GERA, GERMANY.

## PUZZLE.

SPECIFICATION forming part of Letters Patent No. 711,439, dated October 14, 1902.

Application filed April 30, 1902. Serial No. 105,344. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL REICHARDT, a subject of the Emperor of Germany, and a resident of Gera, Reuss, Germany, have invented certain new and useful Improvements in Puzzles, of which the following is a specification.

This invention relates to puzzles, and has for its object to provide an improved device of this class which will require the possession of a steady nerve and exercise of great patience to solve.

With this object in view the invention consists in the improved construction, arrangement, and combination of parts hereinafter described and afterward specifically claimed.

The accompanying drawing illustrates in plan view my improved puzzle, in which A indicates the outer walls of a box which may be made of any suitable material—such as metal, hard rubber, horn, &c.—and of any suitable size, the bottom B of the box being flat and of the same or any other suitable material.

The walls A are located along the outer edges of the bottom, the outline of which is shown as of heart shape, although any other shape substantially similar thereto might be adopted.

Within the walls A the box is divided by partitions into a number of tracks or ways, which for convenience of description I will divide into three circular and two substantially triangular groups, each of the groups of partitions being designated by a capital letter and exponents and each group of tracks in a similar manner by a lower-case letter and exponents. The circular groups are indicated at C C' C<sup>2</sup> C<sup>3</sup> C<sup>4</sup> C<sup>5</sup>, D D' D<sup>2</sup> D<sup>3</sup> D<sup>4</sup> D<sup>5</sup>, and E, E', E<sup>2</sup>, E<sup>3</sup>, E<sup>4</sup>, and E<sup>5</sup>, there being six concentric partitions in each group located with reference to each other, with the central circular spaces at the angles of a triangle substantially equilateral. The triangular groups of partitions occupy the spaces left between the outer wall A and the circular groups and are designated by the letters c and d, with suitable exponents. Of these triangular groups the partitions c and c' are joined at an angle between the circular groups C and D, and d and d' are similarly joined in the spaces between groups C and E. The other partitions c<sup>2</sup> c<sup>3</sup> c<sup>4</sup> and d<sup>2</sup> d<sup>3</sup> d<sup>4</sup> of the tri-

angular groups are located between the last-named partitions and the outer walls A, and at the apex of the heart one section of the circular partition C is continued outward in a substantially tangential line and joined to partitions e e', as shown, while other sections of the same partition C are continued in ogee form and also form parts of partitions D and E. The circular partitions of the various groups are interrupted by gaps, as at f, those of adjacent partitions alternating with each other, and these gaps, taken in connection with the spaces between the walls and partitions, form tracks or ways, as at g g, leading into central spaces provided with depressions or pockets F, G, and H. At various places in the groups adjacent partitions are joined by substantially semicircular lines, as at h h' h<sup>2</sup>, and the spaces thus formed are provided with depressions or pockets I J K. A similar depression or pocket L is also provided in the triangular space between the three circular groups.

To solve the puzzle, the box is held in the hands and balls, as i j k, placed promiscuously therein, preferably far removed from the pockets, when by tilting the box the operator endeavors to cause the balls to roll into and remain in the selected pockets. There may be any number of balls not exceeding the total number of pockets.

By the described arrangement of partitions a labyrinthian series of tracks is formed and much skill and patience are required to solve the puzzle.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The herein-described puzzle comprising a box having its bottom and outer walls of substantially the outline of a heart, and provided with three circular series of concentric partitions surrounding three inner circular spaces located at the angles of a triangle and having pockets or depressions, and three series surrounding a triangular space having a pocket or depression, the partitions being interrupted by alternating gaps, substantially as described.

2. The herein-described puzzle comprising a box having its bottom and outer walls of substantially the outline of a heart, and pro-



vided with three circular series of concentric partitions surrounding three inner circular spaces located at the angles of a triangle having pockets or depressions, two sections of the  
5 outer partition of one series being continued in ogee shape to form parts respectively of the outer partitions of the other two series, substantially as described.

3. The herein-described puzzle comprising  
10 a box having its bottom and outer walls of substantially the outline of a heart, and provided with three circular series of concentric partitions surrounding three inner circular spaces located at the angles of a triangle having  
15 pockets or depressions, and the three series surrounding a triangular space having a pocket or depression, the partitions being interrupted by alternating gaps, and the spaces between the circular series and the outer walls

being occupied by triangular series of partitions, substantially as described. 20

4. The herein-described puzzle comprising a box having its bottom and outer walls of substantially the outline of a heart, and provided with three circular series of concentric  
25 partitions surrounding three inner circular spaces, located at the angles of a triangle and having pockets or depressions, some of the adjacent partitions of such series being connected by substantially semicircular parti-  
30 tions interrupting the tracks or ways and forming spaces provided with depressions or pockets, substantially as described.

In testimony whereof I affix my signature.

PAUL REICHARDT.

In presence of—

F. STEPHAN,

A. BRÄUTIGAM.