

(No Model.)

J. C. DANDO, Jr.
PUZZLE.

No. 579,045.

Patented Mar. 16, 1897.

FIG. 1

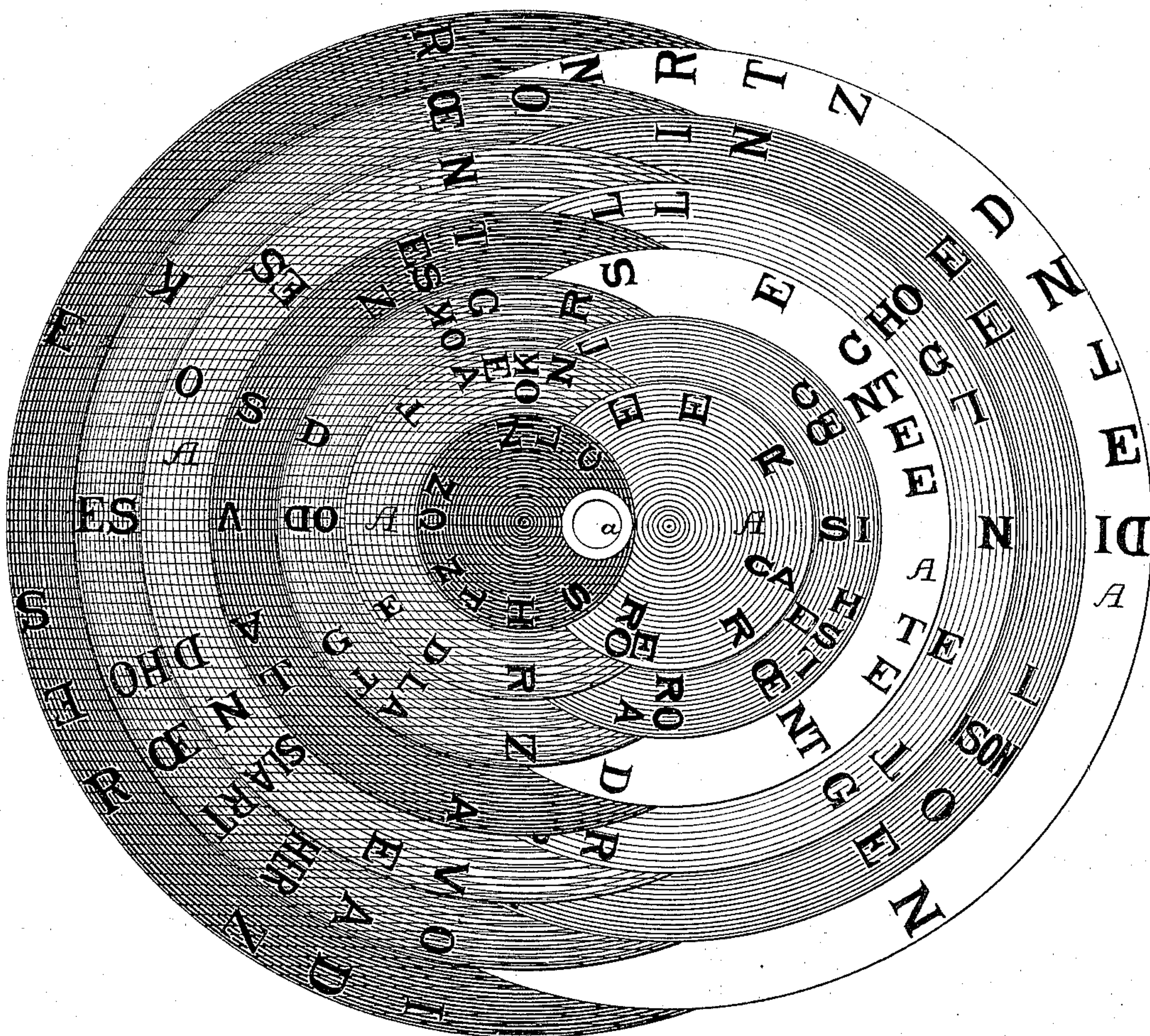
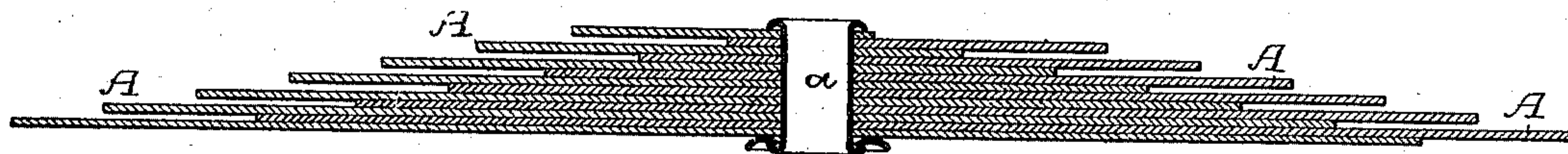


FIG. 2.



Witnesses:
R. Schleicher,
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UNITED STATES PATENT OFFICE.

JOSEPH C. DANDO, JR., OF PHILADELPHIA, PENNSYLVANIA.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 579,045, dated March 16, 1897.

Application filed June 18, 1896. Serial No. 596,032. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH C. DANDO, JR., a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Puzzles, of which the following is a specification.

My invention relates to that class of puzzles which comprise a series of superposed disks having a common axis, around which they are free to turn, said disks having around their edges letters, symbols, or other characters intended to be brought into line with each other by adjustment of the disks, so as to form words or other predetermined combinations of letters or characters.

A special object of my invention is to so construct a device of this class as to very materially increase the difficulty of properly arranging the disks in order to form the predetermined words or effect the predetermined combinations, an object which I attain by pivoting the disks eccentrically in respect to each other.

A further object is to produce novel and pleasing effects of color as the disks are adjusted to form different combinations of letters or characters.

In the accompanying drawings, Figure 1 is a face view of a puzzle constructed in accordance with my invention, and Fig. 2 is a sectional view of the same.

The device consists of a series of superposed disks A of different diameters, pivoted together by means of the pivot pin or post a , so that each disk is free to turn around its axis.

Any desired material may be used in making the disks.

Each of the disks has, in the present instance on its upper face close to the outer edge, a series of letters, and in the use of the device the disks are intended to be adjusted so as to bring certain letters into line with each other to form words, although in carrying out my invention the use of lettered disks is not essential, as the disks may have symbols or characters other than letters to be adjusted in accordance with the predetermined arrangement.

The disks are eccentrically pivoted, so that the difficulty of effecting proper arrangements of the letters or other characters is materially increased as compared with a device in which the disks are concentrically pivoted. For instance, the second letter necessary to form a word may be located on that part of the second rotating disk which overlaps that part of the first disk containing the first letter of the desired word. Hence the second disk would have to be ignored in forming the word, and one of the other disks—the third disk, for instance—adjusted so as to supply the second letter, and this idea may be continued throughout the series and can be made susceptible of many modifications.

It is preferable to arrange the letters so as to provide for the simultaneous formation of a number of similar words, as shown in the drawings, thus materially increasing the difficulty of adjusting the disks, and it is also preferable to make the disks of different colors, so as to produce segmental bands of color, changing in relation to each other with each change of adjustment of the disks.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. The within-described puzzle consisting of a series of superposed disks of different diameters eccentrically pivoted upon the same axis and having letters or other characters formed upon them, substantially as specified.

2. The within-described puzzle consisting of a series of superposed disks of different diameters distinguished from each other in color, said disks being eccentrically pivoted upon the same axis, substantially as specified.

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

JOS. C. DANDO, JR.

Witnesses:

F. E. BECHTOLD,
JOS. H. KLEIN.