

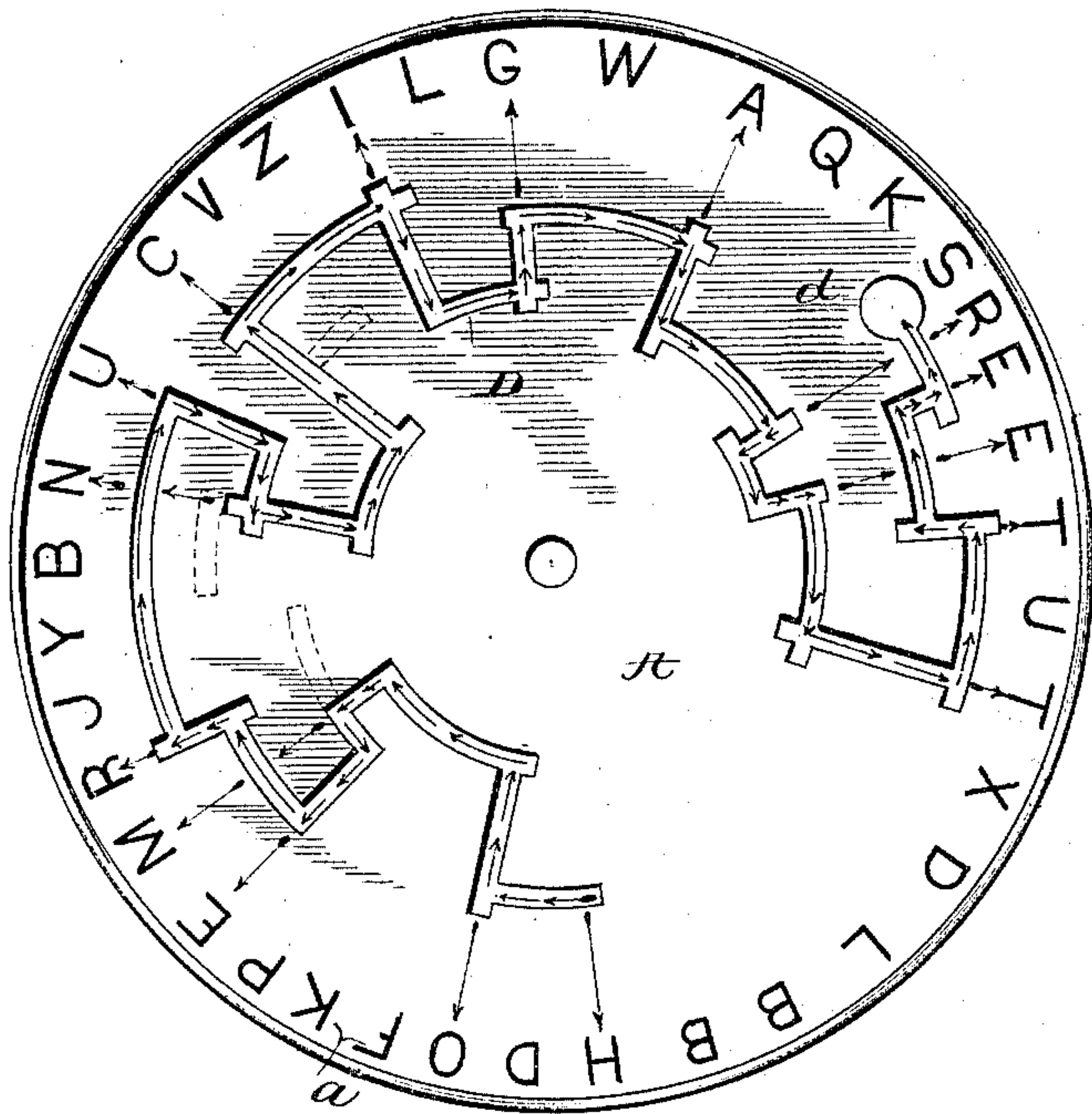
(No Model.)

J. F. DEEVES & R. U. J. GAUTHREAU.
PUZZLE.

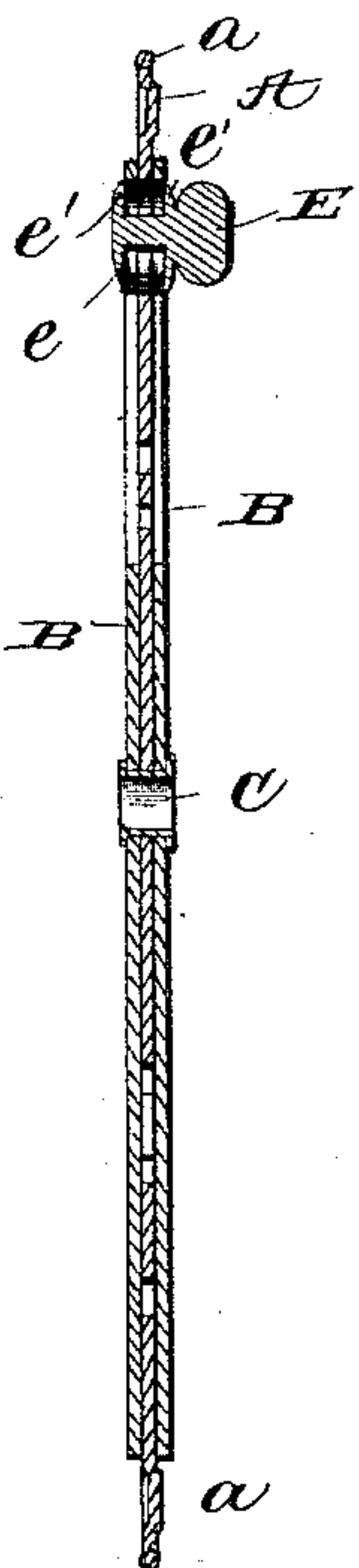
No. 432,865.

Patented July 22, 1890.

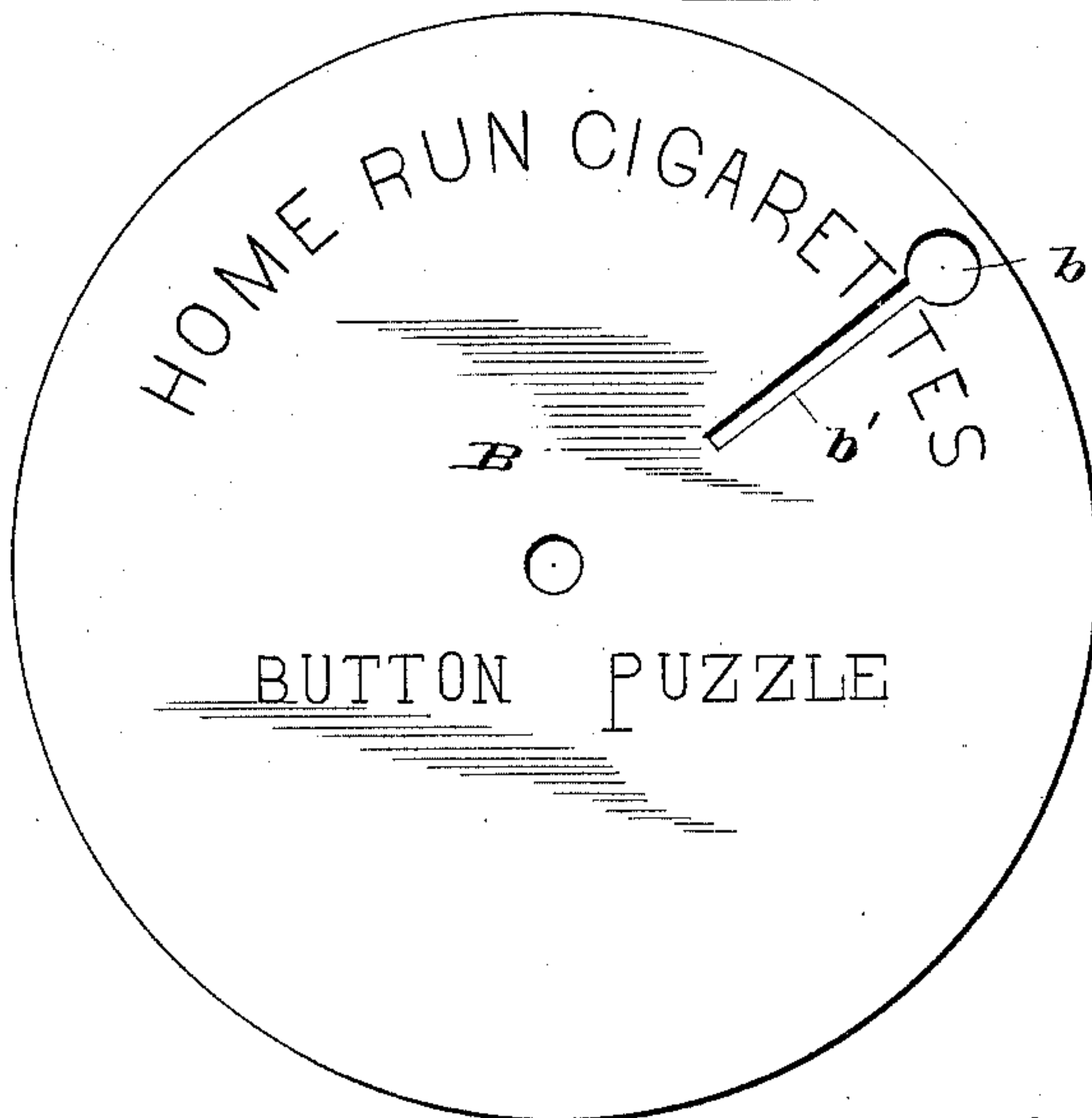
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Ed. J.



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UNITED STATES PATENT OFFICE.

JOHN F. DEEVES AND RICHARD U. JOS. GAUTHREAUX, OF NEW ORLEANS,
LOUISIANA.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 432,865, dated July 22, 1890.

Application filed October 23, 1889. Serial No. 327,959. (No model.)

To all whom it may concern:

Be it known that we, JOHN F. DEEVES and RICHARD U. JOS. GAUTHREAUX, citizens of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Puzzles; and we 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.

Our invention is a puzzle; and it consists in a novel construction of parts constituting the same, and it also contemplates the use of such puzzle as an advertising device in the manner hereinafter fully described.

In the accompanying drawings we have illustrated one form in which we have contemplated embodying our invention, and the same is fully disclosed in the following specification and claims.

In the said drawings, Figure 1 is a plan view of the central disk employed in constructing our puzzle. Fig. 2 is a similar view of one of the outer disks of the same. Fig. 3 is a sectional view of the completed article.

Our improved puzzle is composed of three disks of thin material, such as metal, cardboard, celluloid, or other preferred material. The central disk A is located between the two outer disks B B, and is of slightly-greater diameter, said disks being pivotally secured together at their common center by means of any suitable construction—as a rivet—which will permit the outer disks to rotate independently of the disk A. The central disk A is provided with an irregular slot D, which extends in a zigzag course around the same, and at differing distances from its center, forming a maze or labyrinth. This slot may be of any desired shape and extent, but is of uniform width, and will terminate at one end in an enlarged opening *d*, located preferably adjacent to the periphery of the outer disks B. The outer disks B B, which are of equal size, are provided each with an opening *b*, similar to the aperture *d* in the plate A, and of substantially the same size. This aperture *b* is located at the same distance from the center as the aperture *d*, and a slot *b'* extends

from each aperture B toward the center of the disks, for a purpose hereinafter described. When the parts have been secured together by riveting or otherwise, the apertures *b b* in the plates B B are made to register with the aperture *d* in the plate A and with each other, and while the plates are in this position a button E is placed in engagement with the said apertures. This button is provided below its head with a shank *e*, of the same diameter as the width of the slot D and the slots *b'*, which shank terminates at each end in a shoulder *e'*. These shoulders will pass through the apertures *d b*; but when the button has been pushed along until it engages one of the branches of the slot D the shoulders *e' e'* will engage the outer faces of disks B B, preventing the button from being removed. It will be seen that as the button is moved along the slot D with a sidewise movement, the disks B B will revolve as the shank *e* presses against the sides of the slots *b' b'* and permit such movement, while the length of the slots B' *b'* will allow for the movement of the button toward and from the center of the disk.

When the button has been placed at the extreme end of the slot D in the manner just described, in order to solve the puzzle, the button must be made to traverse the maze formed by the said slot until the enlarged opening *d* is made to register with the apertures *b* of the plates before the button can be removed.

We prefer to provide a key by which the puzzle may be readily worked, and for this purpose we provide the outer edge *a* of the disk A, which extends beyond the peripheries of the disks B B, with a series of letters or characters, which may be formed by printing the same on the material of which the disk is formed. We may, however, form said characters by printing the same on some suitable material and attaching the same to the disk, or by stamping the characters into the same by using suitable dies, and the letters may appear in raised or depressed form, as found most desirable. These characters are arranged in such a manner that as the puzzle is worked the button E and slots *b'* will be brought successively in line with certain let-

ters at every movement, which letters, taken in their order, will spell some word, sentence, or other matter, as desired, which shall be the key to the puzzle, and a much greater number
 5 of characters will be employed on the disk A than are necessary to form the key. By this means the device can be readily and effectively used for the purpose of advertising by arranging the letters so that the key shall be
 10 the name of some article or product to be sold or introduced, or the name of a house engaged in any business or occupation; but any desired letters or combination of letters forming any inscription desired may be em-
 15 ployed in connection with this puzzle.

In the form shown in the drawings the key to the solution of the maze is "Home Run Cigarettes," and as seen in the drawings and indicated by the arrows in order to solve the
 20 puzzle and remove the button the same must traverse the slot D in such manner as to bring it successively in line with each letter embraced in the key, the enlarged apertures through which the button may be removed being lo-
 25 cated in line with the last letter "S" of the key. In this connection it is desirable that the slot D should change direction at each of the points indicated by the letters of the key, and thereby call attention to the key and the ad-
 30 vertisement embraced therein in case it is unknown to the person using the puzzle. In this way if the key is not known the person solving the puzzle must become acquainted with it and the advertising device expressed
 35 by the same by simply causing the button to traverse the maze in removing the button.

The side plates, it will be seen, cover up the disk A and prevent the branches of the slot D from being seen, and said slot may be pro-
 40 vided with a number of side branches at the points of junction of two branches, as indicated in full lines, and with other branches, as indicated in dotted lines, Fig. 1, to mislead the operator and render the puzzle more dif-
 45 ficult of solution.

What we claim, and desire to secure by Letters Patent, is—

1. In a puzzle, the combination, with the central disk provided with a slot forming a maze, of a disk provided with a radially-disposed
 50 slot, movably secured on each side of said central disk, and a button engaging the slots of all of said disks, substantially as described.

2. In a puzzle, the combination, with a central disk provided with a slot forming a maze
 55 and terminating in an enlarged opening, of disks provided with radially-disposed slots terminating in similar apertures and adapted to register with the aperture in said central disk, and a button adapted to pass through
 60 said apertures and having a reduced shank adapted to engage the slots of said disks, substantially as described.

3. In a puzzle, the combination, with a central disk provided with a slot forming a maze,
 65 of a disk provided with a radially-disposed slot on each side of said central disk, a button engaging the slots of all the disks, said central disk being provided with a series of
 70 characters for indicating the movements of said button in said maze, substantially as described.

4. In a puzzle, the combination, with a central disk provided with a slot forming a maze,
 75 of a disk provided with a radially-disposed slot on each side of said central disk, a button engaging the slots of all the disks, said central disk being provided with a series of characters, certain of said characters indicating the movements of said button in said maze
 80 and forming an advertising device, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN F. DEEVES.

RICHARD U. JOS. GAUTHREAUX.

Witnesses:

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