

Aug. 2, 1927.

1,637,602

D. L. CHANDLER

PUZZLE

Filed Nov. 18 1925

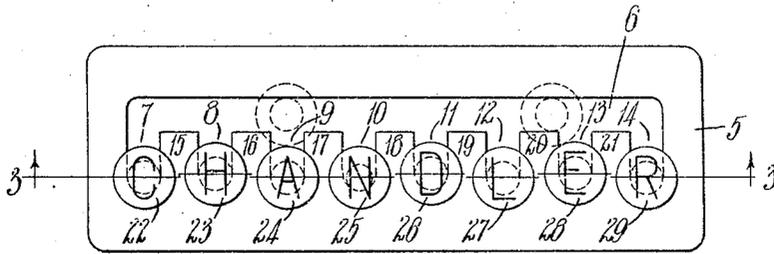


FIG. 1.

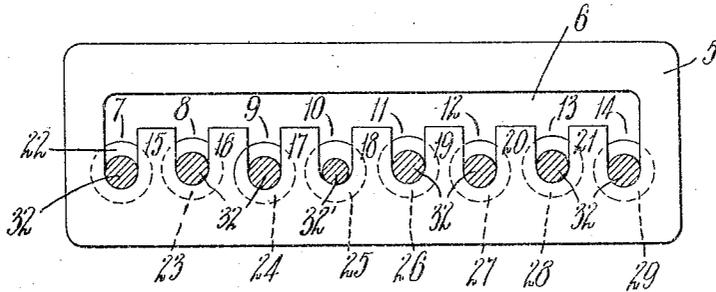


FIG. 2.

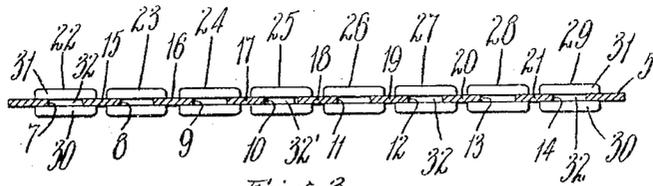


FIG. 3.

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UNITED STATES PATENT OFFICE.

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PUZZLE.

Application filed November 18, 1925. Serial No. 69,779.

This invention relates to a puzzle, the object of the invention being to provide a puzzle in which a plurality of spools, each with a letter on the head thereof, are slidably mounted on a plate and can be shifted to position them, so that said letters will spell a word, name, or the like.

A further object of the invention is to provide a device of the character set forth which can be economically manufactured in large quantities and which will require the exercise of considerable ingenuity and study to position the spools, so that the letters on the heads thereof will spell a given word or name.

The invention consists in a puzzle constructed as hereinafter set forth and especially embodying the combination of elements set forth in the claims.

Referring to the drawings:—

Figure 1 is a plan view of a puzzle embodying my invention.

Fig. 2 is a view similar to Figure 1 with the shanks of the spools shown in section.

Fig. 3 is a sectional plan taken on line 3—3, Figure 1.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 5 is a plate provided with a slot 6 running longitudinally thereof and closed at its opposite ends. 7, 8, 9, 10, 11, 12, 13 and 14 are pockets interposed between fingers 15, 16, 17, 18, 19, 20 and 21. It will be noted that the said fingers are located adjacent to the slot 6, the upper ends of the fingers forming one wall of said slot. 22, 23, 24, 25, 26, 27, 28 and 29 are spools each comprising a disc-shaped head 30, a disc-shaped base 31 and a shank 32. The shanks of all of the spools are approximately of the same diameter, except the shank 32' of the spool 25, which is of smaller diameter than that of the other shanks.

The pockets 7, 9, 12 and 14 are of greater depth than the pockets 8, 10, 11 and 13. The diameter of the shanks of each of the spools, with the exception of the shank 32', is approximately the same as the width of the slot 6 and the width of each of the pockets, so that as the spools, except the spool 25, are moved along the slot 6 and into and out of the pockets, the shanks thereof have a sliding fit, but very slight play laterally thereof, either in the pockets or in the slot.

In operating the device the small shank 32' on the spool 25 enables the spool 25 to

be moved out of the pocket 10, for example, and along the slot 6, and the spool 26 can then be moved out of its pocket 11 and into the pocket 10, and the spool 27 can, in that event, be moved out of its pocket and into the pocket 11, and the spool 25 can then be moved into the pocket 12.

Also, it will be seen that in changing the positions of the spools to form a word that a spool which is located in one of the deeper pockets, such for example as the spool 27 which is located in the pocket 12, will allow a spool 26 to be moved along the slot 6 and past the spool 27 without the disc-shaped head of one spool colliding with the other. In this manner, due to the spool 25 having a small shank 32', which allows that spool to be moved anywhere along the slot 6, and past the other spools, and due to the pockets 7, 9, 12 and 14 being deeper than the pockets 8, 10, 11 and 13, the spools may be moved out of their pockets and along the slot 6 in different directions so as to assume different positions relatively to each other.

It will, however, be noted that if a spool such as the spool 27 is moved out of its pocket and along the slot 6, it cannot pass the spool 28 because its head and base would abut against the head and base of the spool 28, as illustrated in dotted lines, Figure 1, but by utilizing the key spool 25 and the different depth pockets 7, 9, 12, and 14, the different spools can be moved into different positions so as, for example, to spell a word "Chandler" as illustrated in Figure 1.

One of the objects of the invention is that the device may be used for advertising purposes, by having the name of the advertiser, or the goods being advertised, spelled by letters impressed on the heads of the different spools and the puzzles distributed among the people to attract attention and impress the name on the minds of these using them.

I claim:

1. A puzzle having, in combination, a plate having a slot therein and a series of fingers adjacent to said slot spaced apart and forming pockets, and a plurality of spools each embodying a head and a shank, the shanks being movable along and within said slot and into and out of said pockets, the diameter of each of the shanks of a plurality of spools being approximately equal to the width of said slot, and the diameter of one of the shanks being less than that of each of a plurality of the other shanks, the diameter

of the heads of a plurality of said spools being such that as they are slid along said slot they will collide with the heads of other spools positioned in said pockets and further movement thereof along said slot in the same direction be thus prevented.

2. A puzzle having, in combination, a plate having a slot therein and a series of fingers adjacent to said slot spaced apart and forming pockets, and a plurality of spools each embodying a head and a shank, the shanks being movable along and within said slot and into and out of said pockets, the depth of one of said pockets being greater than that of another, the diameter of the heads of a plurality of spools being such that as they are slid along said slot they will collide with the heads of other spools positioned in said shallow pockets and further movement thereof along said slot in the same direction be thus prevented, while the same spools may be moved along said slot and past the spool positioned in said deeper pocket.

3. A puzzle having, in combination, a plate having a slot therein and a series of fingers adjacent to said slot spaced apart and forming pockets, and a plurality of spools each embodying a head and a shank, the shanks being movable along and within said slot and into and out of said pockets, several of said pockets each having a depth greater than the depth of each of the remainder of said

pockets, the diameter of the heads of a plurality of spools being such that as they are slid along said slot they will collide with the heads of other spools positioned in the shallow pockets and further movement along said slot in the same direction be thus prevented, while the same spools may be moved along said slot and past the spools positioned in said deeper pockets.

4. A puzzle having, in combination, a plate having a slot therein and a series of fingers adjacent to said slot spaced apart and forming pockets, and a plurality of spools each embodying a head and a shank, the shanks being movable along and within said slot and into and out of said pockets, the diameter of each of the shanks of a plurality of spools being approximately equal to the width of said slot, and the diameter of one of the shanks being less than that of each of a plurality of the other shanks, the diameter of the heads of a plurality of said spools being such that as they are slid along said slots they will collide with the heads of other spools positioned in said pockets and further movement thereof along said slot in the same direction be thus prevented while the same spools may be moved along said slot and past the spool with a small shank.

In testimony whereof I have hereunto set my hand.

DANIEL L. CHANDLER.