No. 855,268.

PATENTED MAY 28, 1907.

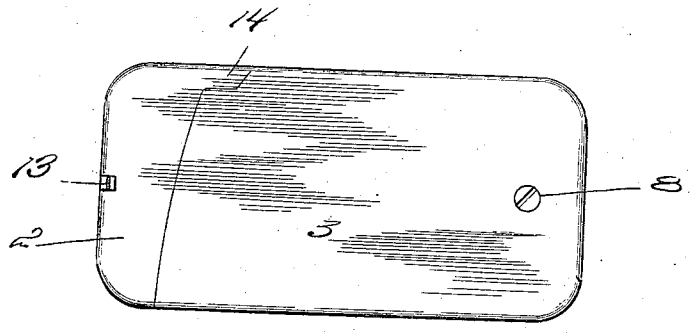
W. S. WATSON & F. ARTZ.

PUZZLE.

APPLICATION FILED MAR. 29, 1906.

3 SHEETS—SHEET 1.

Fig. 1.



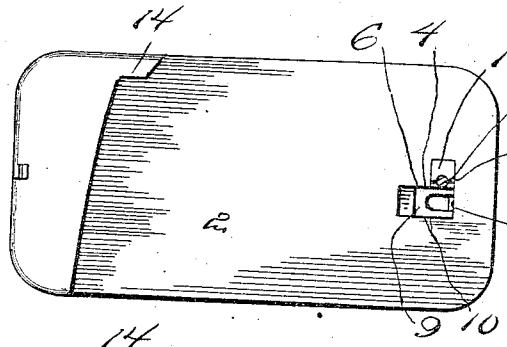


Fig. 2.

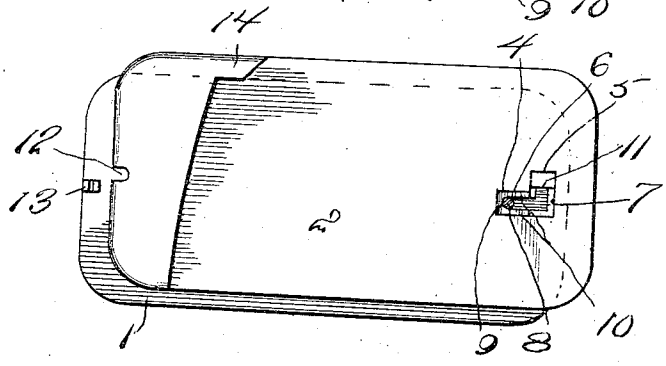


Fig. 3.

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3 SHEETS—SHEET 2.

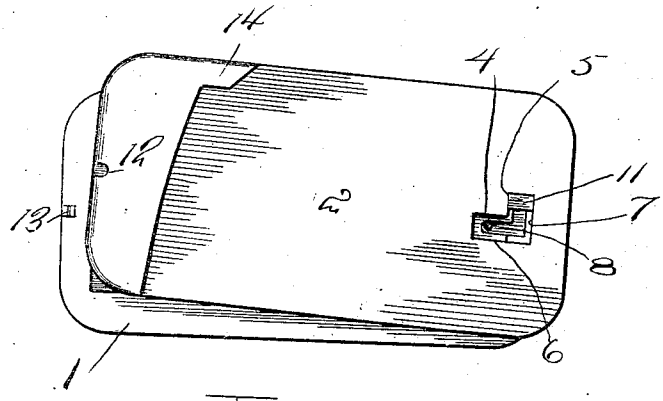


Fig. 4.

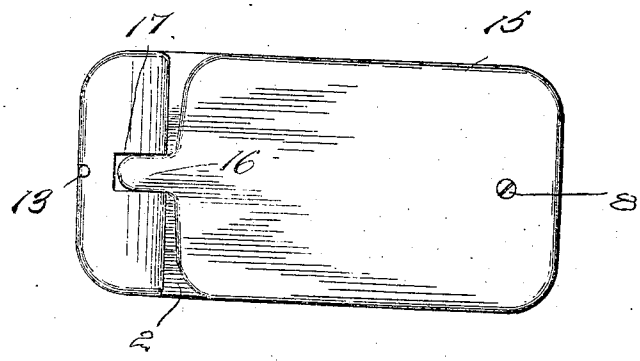


Fig. 5.

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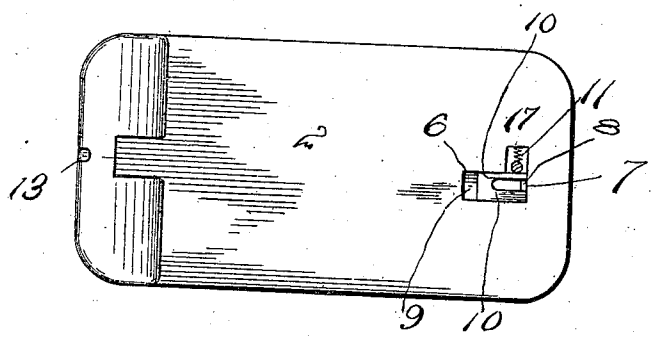
W. S. WATSON & F. ARTZ.

PUZZLE.

APPLICATION FILED MAR. 29, 1906.

3 SHEETS—SHEET 3.

Fig. 6.



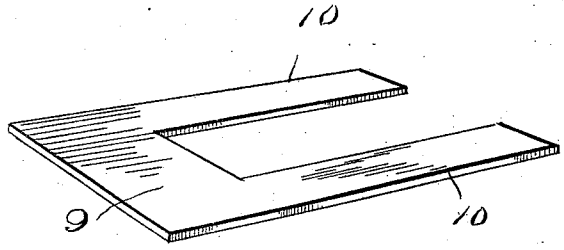


Fig. 7.

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UNITED STATES PATENT OFFICE.

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PUZZLE.

No. 855,268. Specification of Letters Patent. Patented May 28, 1907.

Application filed March 29, 1906. Serial No. 308,783.

To all whom it may concern:

Be it known that we, WILLIAM S. WATSON and FREDERICK ARTZ, citizens of the United States, residing at Galesburg, in the county of Knox, State of Illinois, 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.

This invention relates to puzzles and more particularly to a box having a lid which can only be moved to permit access to the box by holding the box in a predetermined position.

The object of the invention is to provide a construction which when opened will be difficult to close.

In the accompanying drawings: Figure 1 is a top plan view of the invention. Fig. 2 is a plan view of the same with the supplemental lid removed and showing the locked position of the parts of the invention. Fig. 3 is a similar view showing the parts in their unlocked position. Fig. 4 is a similar view showing the detent removed. Fig. 5 is a plan view of a slightly modified form of box. Fig. 6 is a view similar to Fig. 2 showing a slightly modified form of locking mechanism for the box and, Fig. 7 is a detail perspective view of the detent.

Referring to the drawings, the numeral 1 denotes the body of the box, 2 the main lid for the same and 3, a supplemental lid for the same. Formed in the upper face 4 of the lid 2 is a recess which has portions 4 and 5 extending at right angles to each other. Formed through the lid 2 and opening into the said portions 4 and 5 of the recess are communicating slots 6 and 7.

Engaged through the supplemental cover 3 and through the slot in the cover 2 is a pivot screw 8 which has its threaded portion engaged in the body of the box. Seated in the portion 4 of the recess is a detent 9 which includes spaced parallel arms 10 which are arranged to lie upon opposite sides of the slot 6. Seated in the recess 7 is a block 11 of rubber. As shown in Fig. 2, the pivot screw 8, when the device is locked, lies between one of the arms 10 of the detent 9 and the said rubber block 11, the said block serving to hold the said arm of the detent tightly against the said pivot-screw. In order to unlock the box, the same is held with the end opposite to the pivot screw downward and the main lid is then moved to compress the rubber block. This movement of the main lid releases the detent and allows it to drop entirely within the recess 4 and out of the path of movement of the pivot-screw 8. The lid 2 may then be swung to allow the said pivot-screw to seat in the slot 6.

The end of the lid 2 opposite to its pivotal point is notched as at 12 for the reception of a pin 13 carried by the box. It will be understood that the said pin prevents movement of the end of the lid with which it is engaged and that the said lid can only be disengaged from the said pin by swinging the said lid as stated.

The lid 2 is of greater thickness at its end opposite its pivotal point than throughout its remaining portion, the enlarged portion having its inner edge face curved from one of the sides of the lid to a point adjacent the other of the sides, the remainder of the enlarged portion being directed toward the end of the lid at which the pivot-screw is located to form a lug 14 for a purpose to be hereinafter described.

The outer edge of the supplemental lid 3 conforms to the contour of the curved edge of the enlarged portion of the lid 2, it being understood that the lug 14 limits the movement of the lid 3 upon the lid 2.

In the form shown in Fig. 5 of the drawings, I have shown a supplemental lid 15 which is provided at its outer edge with a tongue 16 which enters a recess 17 formed in the enlarged end of the main lid 2 of the box. The lid 15 has no swinging movement and, as in the case of the lid 3 serves merely as a false or baffle lid.

In Fig. 6 of the device, I provide a spring 18 which is seated in the recess 5 in place of the rubber block shown in the preferred form of the invention.

What is claimed is:

1. A device of the class described comprising a box, a main lid for the box, said lid being provided with a recess and having a slot formed therethrough and communicating with said recess, a detent seated in the said recess and including spaced arms, a supplemental lid, a pivot pin engaged through said supplemental lid and through the said slots in said main lid.

2. A device of the class described comprising a box, a main lid having recesses formed therein and having a slot formed therethrough and communicating with said

recesses, a supplemental lid, a pivot-pin carried by said box and engaged through said slot, and said supplemental lid, a detent disposed in one of said recesses, and means disposed in the other of said recesses for holding said detent in engagement with said pivot pin.

3. A device of the class described comprising a box, a main lid having communicating recesses formed therein and having communicating slots formed therethrough and communicating with the said recesses, a pivot pin carried by said box and engaged through said slots and said supplemental lid, a detent seated in one of said recesses, and a resilient element located within the other of said recesses and arranged to hold said detent and said pivot pin in engagement when the parts are in locked position.

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

WILLIAM S. WATSON.
FREDERICK ARTZ.

Witnesses:
C. J. JOHNSON,
M. LEAHY.