

PATENT SPECIFICATION



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245,004

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COMPLETE SPECIFICATION.

A New or Improved Puzzle or Game Apparatus.

I, CARL HÄRLBIG, of No. 17, Burgstrasse, Hirschberg, Silesia, Germany, of German nationality, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a puzzle or game apparatus consisting of a box in which a number of pieces of equal size are placed side by side so that the box is filled with the exception of a space equal to the size of a piece, the pieces being moved without crossing one another to bring them into a predetermined position.

It has been proposed heretofore to provide a puzzle game comprising a shallow tray having a false bottom provided with interconnected ways (for example a C shaped way connected to the mid points of each of two parallel straight ways) in which slide pieces each comprising two discs connected together one above and one below the false bottom.

According to the invention a puzzle or game apparatus consists of a box in which a number of pieces are arranged side by side so that the box is filled with the exception of a space equal to the size of a piece and in which the bottom plate of the box is made of wood, longitudinal and transverse slots being cut into said bottom plate in which slots extensions on the lower surfaces of the pieces and consisting of a thin shaft and of a head plate are guided.

To bring the pieces into correct succession by simply moving the same they must have previously been displaced by simple moving. When moving the pieces no piece must be removed from the box nor replaced by another piece and, in order to securely prevent interchanging of the pieces, it is advisable to connect the pieces with the bottom plate of the box in such a manner that they can be moved

in the box in longitudinal and transverse directions but not removed from the box.

An embodiment of the invention is shown in the accompanying drawing in which:

Fig. 1 shows the box in plan view.

Fig. 2 shows in plan view one of the pieces.

Fig. 3 is a plan view of Fig. 2 seen from below.

Fig. 4 is a side elevation of Fig. 2.

Fig. 5 shows the box with pieces inserted.

Fig. 6 is a section on line 7—7 of Fig. 1.

Fig. 7 is a section on line $x-x$ of Fig. 5.

The inner space of the box 1 is of such size that sixteen pieces 2 would completely fill the box. The box contains, however, only 15 pieces so that, as shown in Fig. 5, the square 4 remains free.

The pieces 2 are successively numbered 1—15 and they are arranged in the box in correct succession so that the square 4 remains free. To begin the playing of the game the pieces 2 are displaced at will so that they are in the greatest possible disorder.

The game consists in re-arranging the pieces in the shortest possible time into the correct succession shown in Fig. 5.

In order to prevent pieces being removed or dropped out of the boxes, each piece 2 has on its lower surface a plate 5 connected with the piece by a shaft 6.

Into the bottom plate of the box 1 undercut longitudinal and transverse slots or grooves 7 are cut. The pieces 2 are pushed in correct succession into the grooves 7, after one of the slide walls of the box has been removed so that the plates 5 engage with the undercut portions of the grooves 7. After the side wall has been fixed again, the pieces 2 are securely held in the box so that they can-

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not be removed, but may be moved in the box as described above. The box 1 may be closed by a lid 8.

5 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

10 A puzzle or game apparatus consisting of a box in which pieces of equal size are placed side by side so that the box is filled with the exception of a square equal

to the size of a piece, characterised in that the bottom plate of the box is made of wood, longitudinal and transverse slots 7 15 being cut into said bottom plate in which slots, extensions on the lower surface of the pieces 2 and consisting of a thin shaft and of a head 5 are guided.

Dated this 12th day of June, 1925. 20

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[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 1. y |

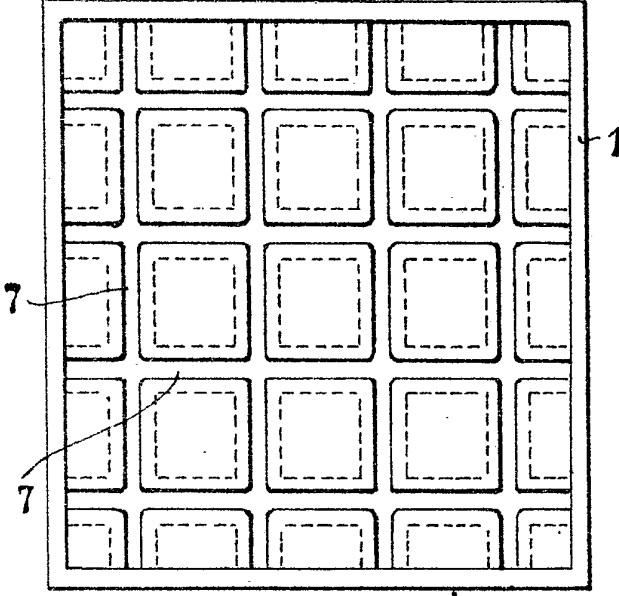


Fig. 2.

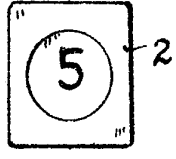


Fig. 3.

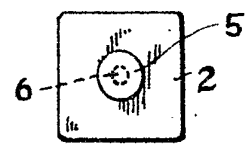


Fig. 4.

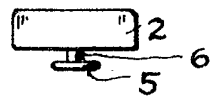


Fig. 5. y |

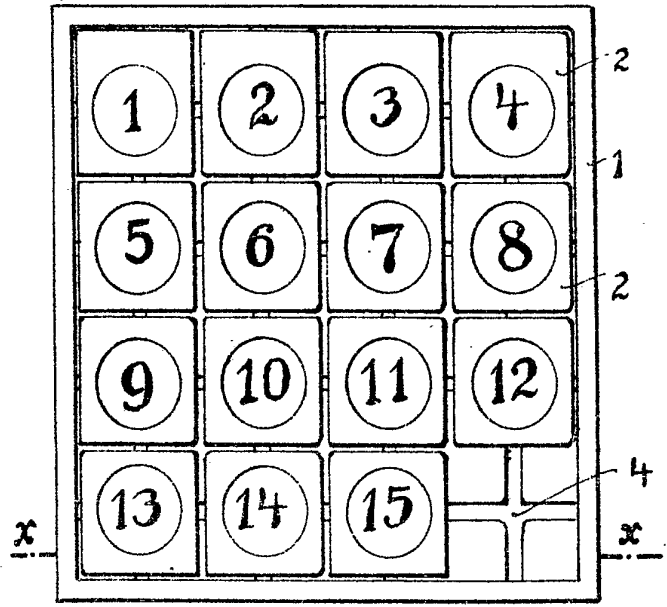


Fig. 6.

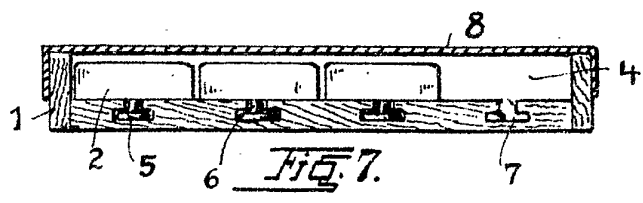
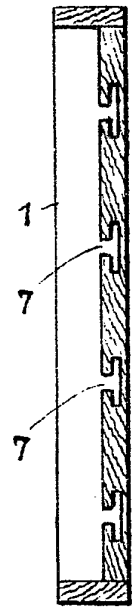


Fig. 7.