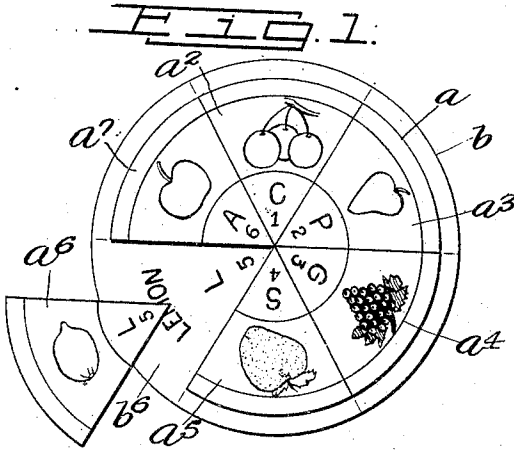
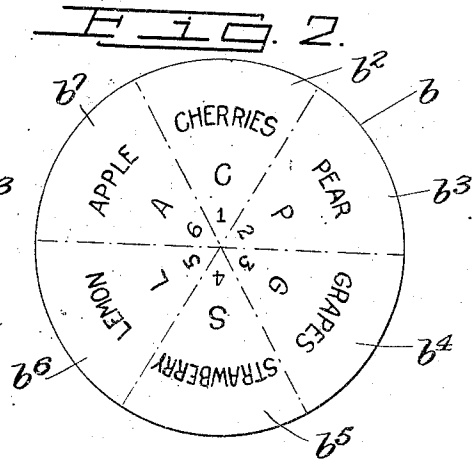
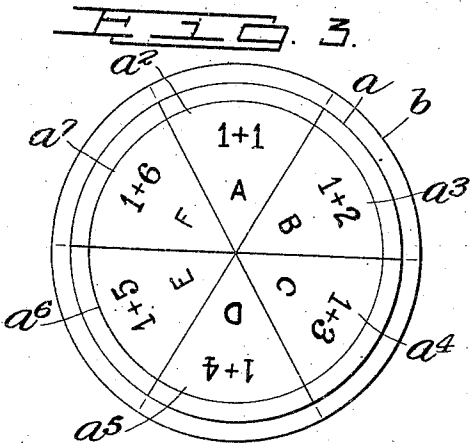
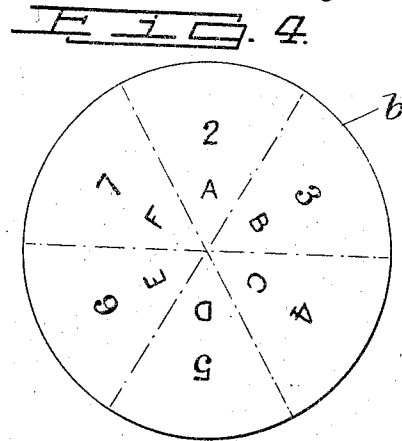
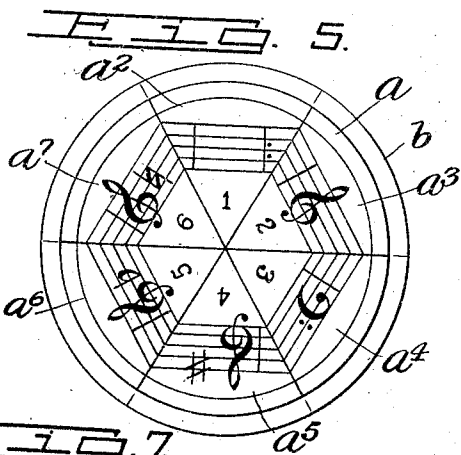
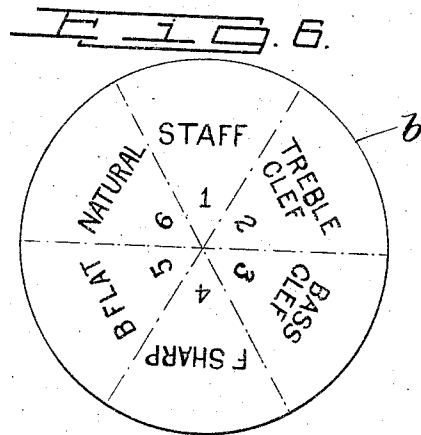
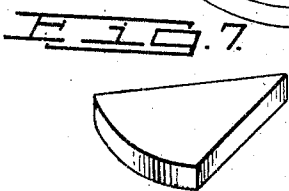


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TOY.

APPLICATION FILED MAR. 3, 1920.

1,359,646.

Patented Nov. 23, 1920.



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UNITED STATES PATENT OFFICE.

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1,359,646.

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To all whom it may concern:

Be it known that I, ISIDOR ZION, a citizen of the United States, and residing at Ridgefield, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Toys, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to what are known as toys, and the object thereof is to provide a device of this class which will be both amusing and attractive to children and also others; a further object being to provide a device of the class specified by means of which the names of animals and other objects or things may be taught to children, also the elemental principles of arithmetic together with the elemental principles of music; and with these and other objects in view the invention consists in a toy device of the class specified, constructed as hereinafter described and claimed.

My improved toy comprises a top question disk or plate and a bottom answer disk or plate, and the invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a plan view of one form of my toy device with one of the parts thereof withdrawn from its normal position, and showing the top disk or plate complete;

Fig. 2 a view of the bottom disk or plate of the complete toy shown in Fig. 1;

Figs. 3 and 4 are views similar to Figs. 1 and 2 but showing a modification;

Figs. 5 and 6 are views similar to Figs. 1 and 2 and 3 and 4 but showing another modification; and,

Fig. 7 a perspective view of one of the parts of the top disk or plate shown in Figs. 1, 3 and 5 but without the data thereon.

In Figs. 1 and 2 of the accompanying drawing, as hereinbefore stated, I have shown my improved toy as designed for use in teaching the names of certain articles, animals, things or other objects, the objects selected in Fig. 1 being vegetables and particularly fruits. The top or question disk or plate *a* is divided into separate sectoral parts *a*², *a*³, *a*⁴, *a*⁵, *a*⁶, and *a*⁷, six of said

parts being employed in the construction shown, and these parts each bear the picture of a fruit, the fruit selected being cherries, pears, grapes, strawberries, lemons and apples, and the sectoral parts also bear distinctive letters and numbers, the part *a*² which represents cherries containing in the inner part thereof the letter C and the numeral 1 radially arranged, while the part *a*³ which represents pears is provided with the letter P and the numeral 2, the part *a*⁴ which represents grapes being provided with the letter G and the numeral 3, the part *a*⁵ which represents strawberries being provided with the letter S and the numeral 4, the part *a*⁶ which represents lemons being provided with the letter L and the numeral 5, and the part *a*⁷ which represents apples being provided with the letter A and the numeral 6.

The answer or bottom disk or plate *b* is also subdivided by words, letters and numerals arranged thereon into six sectoral parts *b*², *b*³, *b*⁴, *b*⁵, *b*⁶ and *b*⁷ respectively, and these parts contain respectively the words cherries, pear, grapes, strawberry, lemon and apple, these names being the names of the various fruits shown in the top or question disk or plate *a*. The separate parts of the bottom or answer disk or plate *b* also contain inwardly of said names and arranged radially thereon and beginning with the part *b*², the letter C and numeral 1, the letter P and numeral 2, the letter G and numeral 3, the letter S and numeral 4, the letter L and numeral 5, and the letter A and numeral 6.

In the use of my improved toy and in the following description, the sectoral parts of the top or question disk or plate will be called blocks, and in the use of the toy the bottom or answer disk or plate *b* is first placed on a table or on the floor or any other support, and the child using the toy selects the disks or blocks and arranges them in proper order on the bottom disk or plate *b* as is shown in Fig. 1, and in doing this the blocks are or must be selected and placed on the bottom disk or plate *b* according to the data on said blocks, and on said bottom disk or plate. For instance, the block *a*² may first be selected and a child will be controlled in his placing of said block in its proper position on the disk or plate *b* by the letter C, or the numeral 1, one of which,

at least, he is presumed to know, and this will teach the child that the fruit pictured on said block is cherries.

Of course, the remaining blocks may be placed in their respective positions on the disk *b* in the same way, and in this manner a child may be taught the name of any kind or class of fruits, vegetables or other objects, including animals of all classes or species, and the various colors, and the flags of the nations. This will also teach the child what any particular fruit, vegetable, animal, object or article looks like, together with the name thereof and the spelling of such name, and in this way a child may also be taught the names and appearances of noted characters such as the Presidents of the United States together with the order in which they served and the term, if desirable.

Although I have shown and described the top or question disk or plate *a* and the bottom or answer disk or plate *b* as circular in form, this shape is not essential nor is it essential or necessary that the blocks *a*², *a*³, *a*⁴, etc., be sectoral in form and other shapes or forms may be employed together with other designating characters on the separate parts of the bottom disk or plate *b* and on the separate blocks which make up the top disk or plate *a*.

It will be understood that in placing my improved toy or toy devices upon the market, said devices may be made up in sets, each toy of a set containing the pictures and other designating characters pertaining to certain classes of fruits, vegetables or the like, animals, objects or articles and any particular toy or toys or a class or set, or the whole class or set may be sold, as desired.

In Figs. 3 and 4 of the accompanying drawing, I have shown my improved toy designed for use in teaching the elemental principles or rules of arithmetic, the subject shown being addition, and, in this form of my improved toy, the top or question disk or plate *a* or the separate parts or blocks *a*², *a*³, *a*⁴, *a*⁵, *a*⁶, and *a*⁷ are provided respectively with the numerals 1+1; 1+2; 1+3; 1+4; 1+5; and 1+6, inwardly of which is arranged respectively the letters A, B, C, D, E, and F, while the bottom or answer disk or plate *b* is divided into sectoral parts by the numerals and letters 2 A; 3 B; 4 C; 5 D; 6 E and 7 F. The object of this arrangement on the separate parts of the toy is to teach a child 1+1 is 2; 1+2 is 3; 1+3 is 4; etc., and in placing the blocks of the top disk or plate on the bottom disk or plate, the child selects the proper part of the bottom disk or plate on which to place a block of the top disk or plate by means of the letters of the alphabet thereon, which the child is presumed to know. For instance, the child will place the block *a*², which contains the letter A on

the bottom disk or plate *b*, or that part thereof which also contains the letter A, and the block *a*³ will be placed on that part of the bottom disk or plate *b*, which contains the letter B and so on until all the blocks or parts of the top or question disk or plate are properly placed on the bottom or answer disk or plate.

The arrangement of the separate parts of my improved toy shown in Figs. 5 and 6 is designed for the purpose of teaching a child the elements of music, and in this case the separate sectoral parts *a*², *a*³, *a*⁴, *a*⁵, *a*⁶ and *a*⁷ of the top disk or plate are provided respectively with the staff, the treble clef, the bass clef, F sharp, B flat and natural, inwardly of which are respectively arranged the numerals 1, 2, 3, 4, 5, and 6, while the bottom disk or plate is divided into parts corresponding with the blocks of the top disk or plate by means of the words staff, treble clef, bass clef, F sharp, B flat and natural, inwardly of which are arranged the numerals 1, 2, 3, 4, 5 and 6.

The use of the toy device, or that form thereof shown in Figs. 5 and 6 will be the same as the form shown in Figs. 1 and 2 and 3 and 4, and it will be understood that the form of toy shown in Figs. 3 and 4 may be used for teaching any of the elemental principles of arithmetic, such as addition, subtraction, multiplication or division, and this also applies to that form of my improved toy shown in Figs. 5 and 6, which may be used for teaching any of the parts or elements of music in addition to those shown and described.

In any of the forms of my improved toy, or toy device, herein shown and described, or in any form thereof that may be employed or devised, the separate parts may be made of any preferred material such as wood, cardboard or fiber board, or may even be stamped from sheet metal, and my invention is not limited in any of its forms or adaptations to the shape or form of the top disk or plate *a*, or the bottom disk or plate *b*, nor to the shape, form or number of the separate parts or blocks into which the top disk or plate *a* is divided, and various changes in and modifications of the construction herein shown and described may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A toy device of the class described comprising a top and question disk or plate and a bottom and answer disk or plate, said parts being independent and said top disk or plate being composed of separate parts adapted to be placed together to form said disk or plate.

2. A toy device of the class described comprising a top and question disk or plate and a bottom and answer disk or plate, said parts being independent and the top and question disk or plate being composed of separate similar parts adapted to be placed together to form said disk or plate and containing the pictures of certain objects together with other designating characters, and the bottom and answer disk or plate being similarly divided by the names of said objects and corresponding designating characters.

3. A toy device of the class described comprising two independent members one of which is provided with question data and the other with answer data relating to said question data, one of said members being also composed of separate parts adapted to be placed together to form said member.

4. A toy device of the class described comprising two independent members one of which is composed of separate independent parts adapted to be placed together to form said member and containing question data and the other with corresponding answer data.

5. A toy device of the class described comprising two independent disk or plate members, one of which is divided into separate similar parts containing question data and the other with corresponding answer data by which it is similarly divided.

6. A toy device of the class described comprising two independent members, one of said members being composed of a plurality of separate parts, and said members being provided one with question data and the other with answer data relating to said question data.

7. A toy device of the class described comprising two independent members, one of said members being composed of a plurality of separate parts, said members being provided one with question data and the other with answer data relating to said question data, and each of said members being provided with key characters.

8. A device of the class described comprising two independent members, one of said members being composed of a plurality of parts adapted to be placed together to form

said member and the other member being provided with a plurality of markings corresponding in number and form to the separate parts of said first named member and upon which said parts are adapted to be placed.

9. A device of the class described comprising two independent members, one of said members being composed of a plurality of parts adapted to be placed together to form said member and the other member being provided with a plurality of markings corresponding in number and form to the separate parts of said first named member and upon which said parts are adapted to be placed, one of said members being provided with question data and the other with answer data relating to said question data.

10. A device of the class described comprising two independent members, one of said members being composed of a plurality of parts adapted to be placed together to form said member and the other member being provided with a plurality of markings corresponding in number and form to the separate parts of said first named member and upon which said parts are adapted to be placed, one of said members being provided with question data and the other with answer data relating to said question data, and the separate parts of said first-named member and the markings on the second-named member being provided with key characters.

11. A toy device of the class described comprising two independent disks, one of which is adapted to be placed on the other and is composed of separate sectoral parts adapted to be placed together to form said disk, said parts being provided with question data and the other disk being provided with answer data.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 2nd day of March, 1920.

ISIDOR ZION.

Witnesses:

C. E. MULREANY,
H. E. THOMPSON.