A. E. JOHNSON.

EDUCATIONAL GAME DEVICE.

APPLICATION FILED MAY 8, 1915.

1,167,407. Patented Jan. 11, 1916.

Fig. 1.

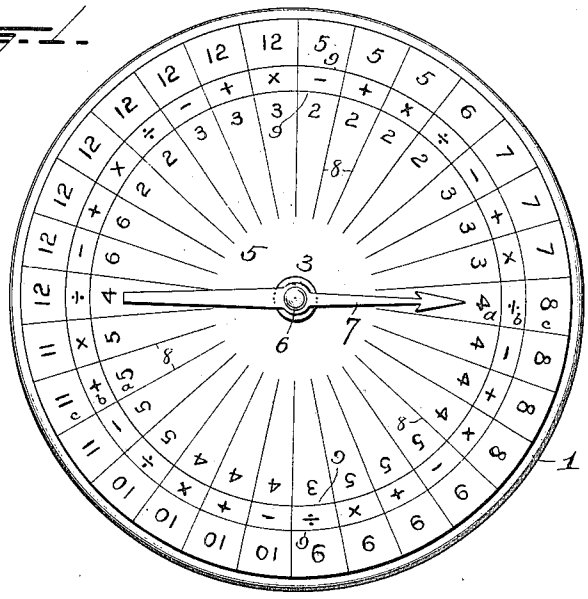


Fig. 2.

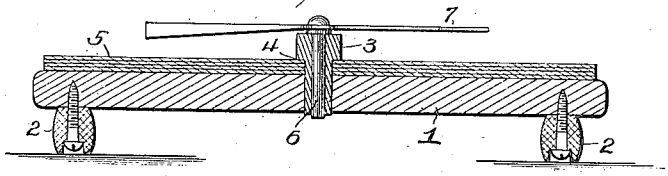
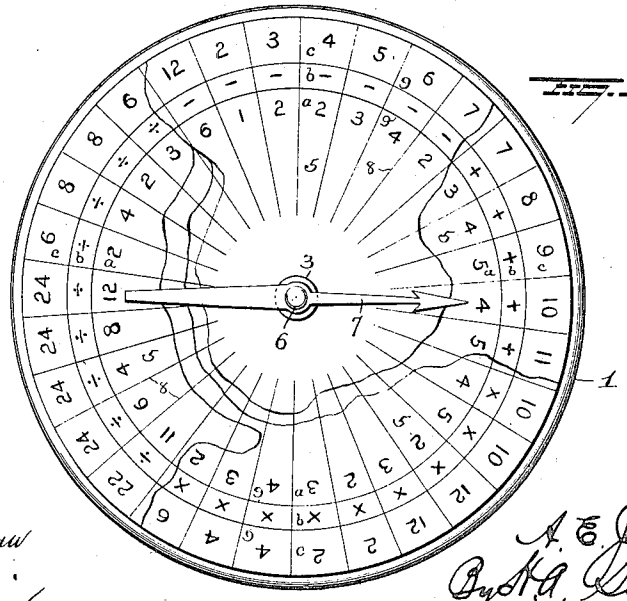


Fig. 3.



WITNESSES

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EDUCATIONAL GAME DEVICE.

1,167,407. Specification of Letters Patent. Patented Jan. 11, 1916.

Application filed May 8, 1915. Serial No. 26,793.

To all whom it may concern:

Be it known that I, AMOS E. JOHNSON, a citizen of the United States, and a resident of Northumberland, in the county of Northumberland and State of Pennsylvania, have invented certain new and useful Improvements in Educational Game Devices; and I 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 an improved educational game device, one object of the invention being to provide a device of this character which shall be susceptible of wide range of useful instruction imparted in an entertaining and attractive manner, and to so construct the device that it may comprise members which shall be interchangeable and reversible to adapt it for educational games differing more or less in specific characteristics.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings; Figure 1 is a plan view of a game device showing an embodiment of my invention; Fig. 2 is a sectional view of the same, and Fig. 3 is a view illustrating various characters of educational data which may be placed upon various disks.

1 represents a table, which may be made of wood or any other suitable material and which may have a circular form. I prefer to support this table upon legs 2 which may be secured thereto in any suitable manner. The table 1 is provided centrally with a hole for the reception of a hub or socket piece 3, which latter is of sufficient height to project some distance above the plane of the upper face of the table, and it may be provided with an annular shoulder 4 to engage the central portion of a disk 5 located upon the table and through which said hub or socket piece passes.

My improved device comprises a plurality of disks 5 and the hub or socket piece may be removably attached to the table, whereby the disks may be interchanged or reversed, as desired. The hub or socket piece serves as a mounting for a pin 6 which depends from a pointer or arrow 7, the latter being thus revolubly mounted over the table and the disk thereon. The pin may be removably supported by the hub or socket piece so that the arrow may be readily removed without removing the socket piece, to permit the placing of a disk upon or removable of a disk from the table.

One or both faces of each disk is divided by radial lines 8 and the spaces formed by these lines may be subdivided by circular lines 9, so that a number (preferably about thirty) of radially disposed series of spaces *a*, *b*, *c*, are formed. In Fig. 1 of the drawing, the disks is shown as provided with figures in each circular series of spaces *a* and *c*, and in the circular series of spaces *b*, arithmetical symbols, such as those commonly employed to denote "addition," "subtraction", "multiplication" and "division", are provided. In the arrangement shown on the disk illustrated in Fig. 1, all of these symbols are employed and they may be arranged indiscriminately in the spaces of the circular series *c*.

In operating the device, one player will cause the rotation of the arrow, and his score will be the arithmetical deduction, according to the figures and symbol in the radial series of spaces *a*, *b*, *c*, where the arrow comes to rest. For instance, if the arrow should come to rest in the position shown in Fig. 1, the player's score would be, "two", as 8 divided by 4 equals 2. Should the arrow come to rest in line with a radial series of spaces including a "minus" symbol, the score would be the difference between the two figures in the spaces *a*, *c*, of such radial series,—for instance 8 minus 4 equals 4. In like manner, the stopping of the arrow in line with a multiplication symbol, the figures in the spaces would be multiplied to arrive at the score, and the figures in spaces *a* and *c* would be added when the arrow stops in line with an addition symbol. The players will spin the arrow in turn, and the one who first attains a predetermined score, will be the winner.

Instead of providing the several arithmetical symbols, indiscriminately arranged on the same disk, separate disks may be arranged for addition, subtraction, multiplication and division, or a plurality of disks may be employed on which the same arrangement of symbols may be employed, but differing in the arrangements of figures,—or both sides of each disk may be

provided with spaces having figures and symbols arranged thereon in the manner previously explained. Some of the disks may be provided with figures and symbols, on one face and on the reverse side, other characters may be placed,—such as letters, pictures of birds and animals, or the names or pictures of army generals representing opposing sides in a war,—or if desired, separate disks may be provided for each class of characters above referred to, or any other class of characters.

Various slight changes might be made in the details of construction without departing from the spirit thereof or limiting its scope and hence I do not wish to restrict myself to the exact details herein set forth.

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

1. An educational game device comprising a table, having a central hole, a removable hub entering said central hole, a plurality of disks having central holes, held in place on the table by said hub, each of said disks having educational matter thereon differing from such matter on the other disks, whereby said disks may be interchanged and permit the playing of various educational games and a pointer disposed over the table and provided with a pin revolubly mounted in said removable hub.

2. An educational device, comprising a table, a removable hub mounted on said table and projecting upwardly therefrom, a spinning arrow provided with a pin mounted in said hub, and a removable disk held in place on said table by said hub and having a central hole to accommodate the latter, said disk having educational data thereon.

3. An educational game device, comprising a spinning arrow and a disk having three circular series of spaces, two of series of spaces containing figures, and the intermediate circular series of spaces containing various arithmetical symbols in radial alinement with spaces of the other two circular series.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

AMOS ELLMAKER JOHNSON.

Witnesses:
M. P. Tierney,
E. J. Renner.