

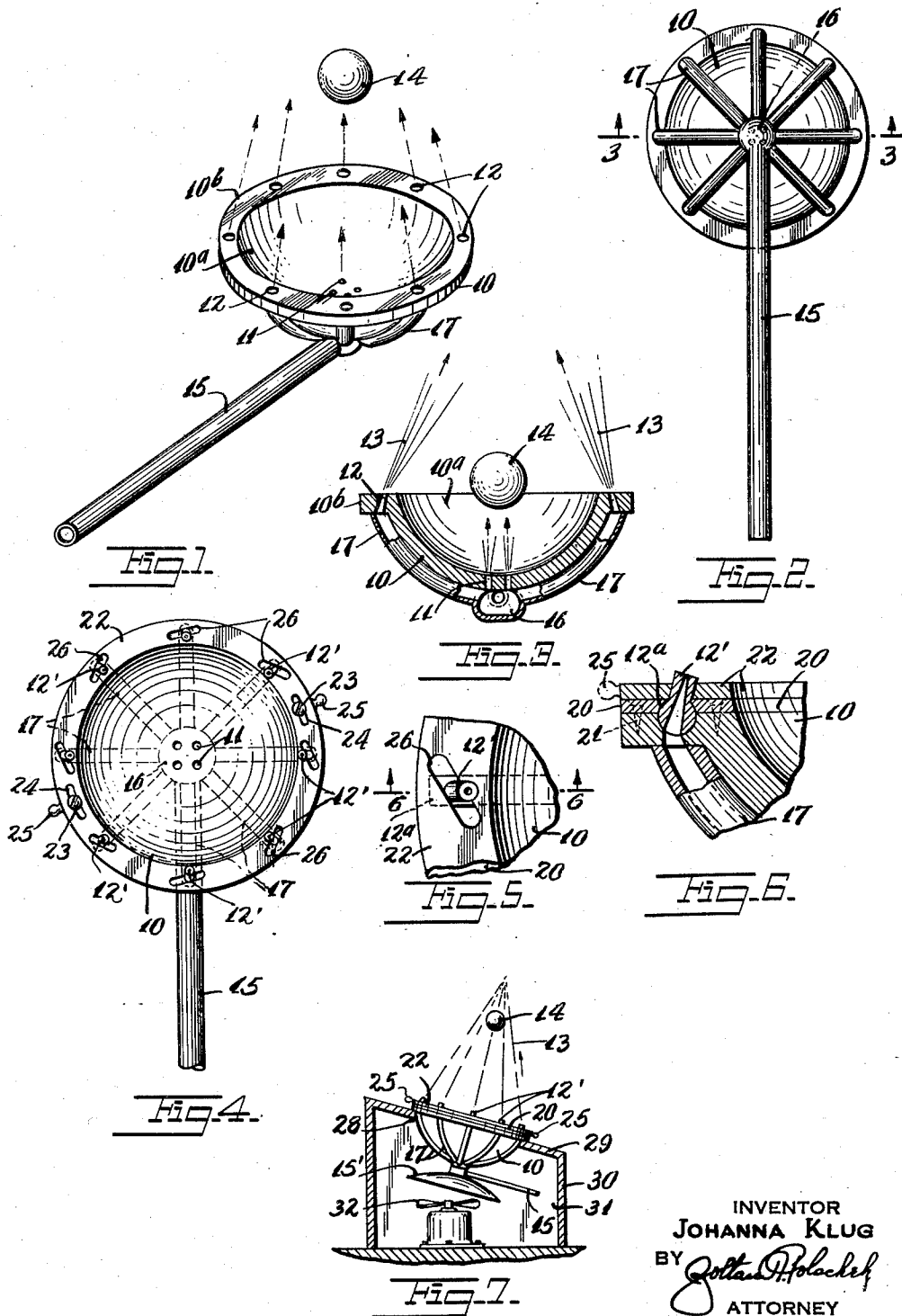
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BLOW BALL

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BLOW BALL

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7 Claims. (Cl. 46—44)

This invention relates to new and useful improvements in a blow ball.

The invention has for an object the construction of a blow ball which is characterized by a cup shaped body with an axial air passage area at its center and a plurality of intermediately inclined air passage areas around its periphery roughly forming an imaginary cone within the compass of which a light ball may be blown around.

Still further the invention proposes the provision of means for connecting the air passage areas to facilitate supplying air simultaneously to cause said ball to float within the imaginary cone.

Still further the invention contemplates making use of a mouth stem by which to supply the air to said passages.

Still further the invention contemplates adapting the blow ball device to a display stand and then providing a blower or other supply of air for its operation.

Still further the invention contemplates an arrangement by which the inclination of the air passage on the periphery of the cup shaped body may be varied to vary the size of the imaginary cone and thus the compass through which the ball may be moved.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a perspective view of a blow ball device constructed according to this invention.

Fig. 2 is a bottom view of Fig. 1.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a plan view of a blow ball constructed according to a modification of this invention.

Fig. 5 is a fragmentary enlarged detailed view of a portion of Fig. 4 showing in particular one of the slots and one of the air passage areas.

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 5.

Fig. 7 is a sectional view of a display stand with a blow ball device mounted thereon.

The blow ball device, according to this invention, comprises a cup-shaped body 10 having an axial air passage area 11 at its center and a plurality of inwardly inclining air passage areas 12 around its periphery roughly forming an imagi-

nary cone 13, indicated by dot and dash lines. A light ball or other similar light object is rested upon the body 10. A means is provided for connecting the air passage areas 11 and 12 to facilitate supplying air to them simultaneously to cause said ball to float within said imaginary cone.

The body 10 has a central concave portion 10^a in which the ball 14 may be rested. It is at the bottom of this concave portion that the axial air passages 11 are located. The body 10 is also provided with a flange portion 10^b. It is in this flange portion that the plurality of inclined air passage areas 12 are located. The means for connecting the air passages includes a mouth stem 15 which may be engaged in one's mouth and through which air may be blown. The inner end of this stem 15 connects with a chamber 16. From this chamber the passages 11 extend to the center of the body 10. Also from this chamber 16 there are hollow ridge portions 17 connecting the chamber 16 with the passages 12.

When air is blown through the stem 15 it will discharge from the axial air passage area 11 to blow the ball 14 axially and the ball will be confined within the cone 13 by the streams of air which pass through the inwardly inclining air passage areas 12.

In Figs. 4-6 inclusive a modification of the invention has been disclosed in which an arrangement is provided for changing the inclination of the peripheral air passage areas. According to this form of the invention each air passage consists essentially of a nozzle 12' which has a cylindrical socket portion 12^a arranged to pivot so that the nozzle portion 12' moves along a radius of the body 10. An annular member 20 is secured upon the body 10 by screws 21. This annular member 20 forms the top portions of the sockets which hold the cylindrical socket portions 12^a.

Another annular member 22 is mounted on the annular member 20 and is slightly rotative relative thereto. This is accomplished by several screws 23 engaging through slots 24 in the annular member 22 and mounted in the member 20. This annular member 22 is provided with projecting handles 25 by which it may easily be turned. For each nozzle 12' there is an inclined slot 26 in the member 22 through which the nozzle extends. These inclined slots are arranged at angles so that as the annular member 22 is turned relative to the member 20 the nozzles 12' will be radially pivoted.

Thus when the annular member 22 is turned clockwise, with respect to Fig. 4, the nozzles 12' 55

will be pivoted towards the axis of the body 10, and when the annular member 22 is moved anti-clockwise they will be pivoted away from the axis of the body. The changing the inclinations of the nozzles 12' changes the size of the imaginary cone within which the ball is maintained.

In Fig. 7 another modified form of the invention has been disclosed in which a ball device is mounted in an opening 28 in the top wall 29 of a housing 30. This housing has an interior compartment 31 in which a fan or blower 32 is arranged. This blower 32 is capable of supplying air which will pass through the stem 15 and supply the air to the various air passage areas as previously described. Thus the ball 14 will be automatically blown around within the theoretical cone.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

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

1. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone.

2. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone, said cup-shaped body having a concave central portion which is provided with said axial air passage area, and a flange portion which is provided with said inwardly inclined air passage areas.

3. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone, said inwardly inclined air passage areas being adjustable radially to change the size of said imaginary cone.

4. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary

cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone, said inwardly inclined air passage areas being adjustable radially to change the size of said imaginary cone, each inclined air passage area comprising a nozzle connected with a cylindrical portion arranged to pivot axially, and means for simultaneously moving said nozzles towards or from the axis of said body.

5. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone, said inwardly inclined air passage areas being adjustable radially to change the size of said imaginary cone, each inclined air passage area comprising a nozzle connected with a cylindrical portion arranged to pivot axially, and means for simultaneously moving said nozzles towards or from the axis of said body, comprising an annular member turnably mounted upon said body and having inclined slots through which said nozzles project.

6. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone, said inwardly inclined air passage areas being adjustable radially to change the size of said imaginary cone, each inclined air passage area comprising a nozzle connected with a cylindrical portion arranged to pivot axially, and means for simultaneously moving said nozzles towards or from the axis of said body, comprising an annular member turnably mounted upon said body and having inclined slots through which said nozzles project, each of said slots being inclined so that when the annular member is turned in one direction the nozzles will simultaneously be moved outwards, and when turned in the other direction the nozzles will be simultaneously moved inwards.

7. A blow ball device, comprising a cup-shaped body having an axial air passage area at its center and a plurality of inwardly and upwardly inclining air passage areas around its periphery and in converging relationship with each other so that the issuing air roughly forms an imaginary cone, a light ball or object resting on said body, and means for connecting said air passage areas to facilitate supplying air to them simultaneously so that issuing air will cause said ball to float within said imaginary cone, said ball device being mounted upon a display stand having a compartment provided with a blower for supplying the necessary air for said air passages.