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NON SPILLABLE CONTAINER WITH EMANATION CONTROL

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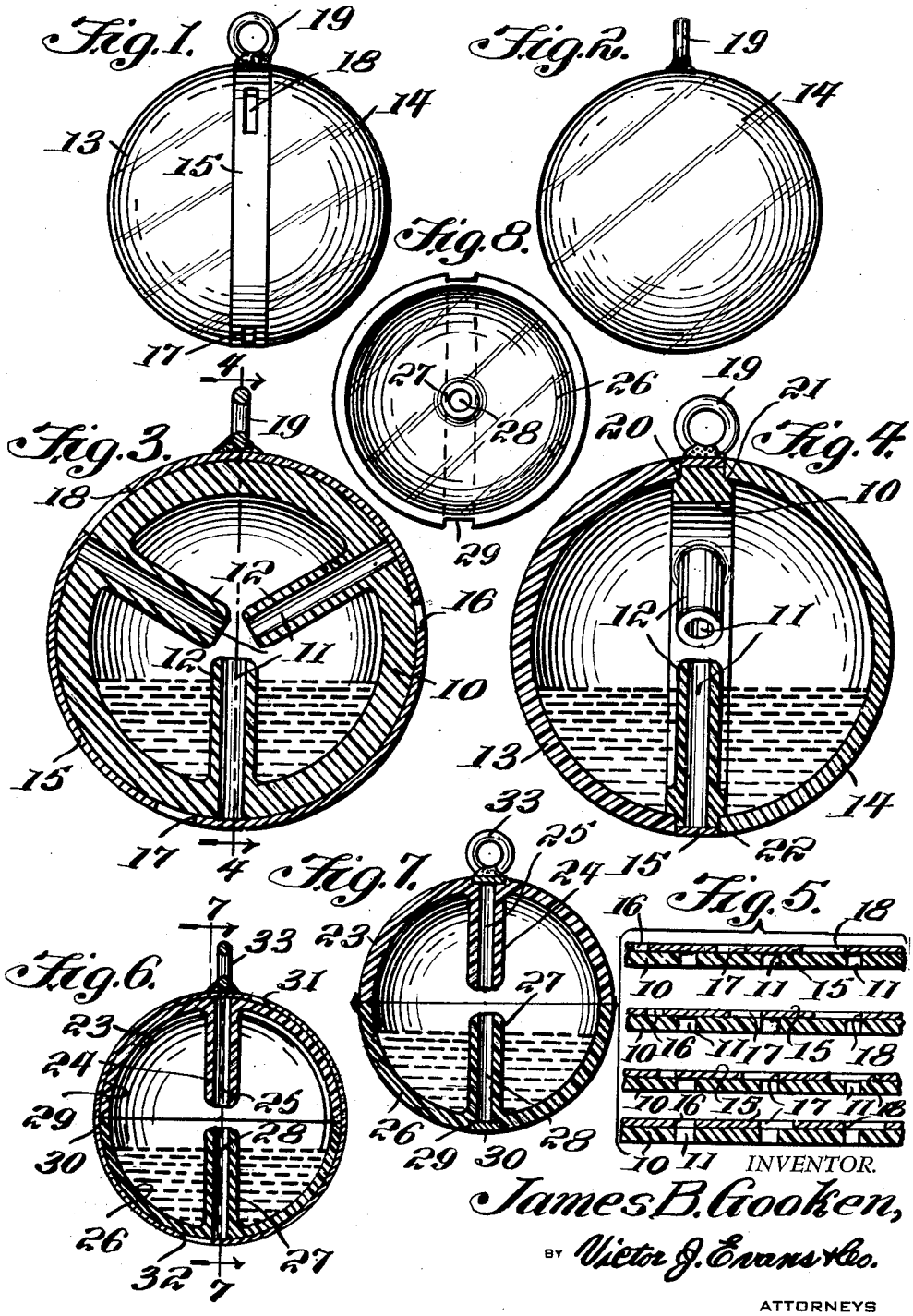

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NONSPILLABLE CONTAINER WITH EMANATION CONTROL

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5 Claims. (Cl. 299—20)

This invention relates to novelties and particularly ornamental jewelry where jewelry pieces such as ear pendants, bracelet attachments, lavaliers and decorative pins, may contain perfume, and in particular a sphere having tubular outlet passages extended from the periphery to points adjacent the center whereby liquid in the sphere, the level of which is below the openings of the passages is trapped in the sphere and the escape of emanations therefrom may be controlled by a band with spaced openings therethrough extended around the sphere and positioned to cover the outer ends of the passages.

The purpose of this invention is to provide means for retaining liquid in a hollow body wherein emanations from the liquid are permitted to escape and where the escape of the liquid from the body is definitely prevented.

Various types of attachments and other devices have been provided for carrying perfumery whereby limited amounts are permitted to escape, however, it is difficult to provide a container that permits the escape of emanations from the liquid without the possibility of the liquid spilling from the container. With this thought in mind, this invention contemplates the use of a sphere from which liquid, the level of which is below an escape opening therein is permanently trapped so that it is impossible to spill or pour liquid from the device.

The object of this invention is, therefore, to provide means for forming a liquid container which permits the escape of emanations and prevents liquid spilling therefrom.

Another object of the invention is to provide a container from which liquid is not removable in which the escape of emanation from the liquid is controllable.

A further object of the invention is to provide a container from which liquid will not spill and in which emanations of the liquid are controllable in which the device is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies a sphere having passages in tubular members extended inwardly from an outer shell to points spaced from the center and in which a band is slidably mounted on the sphere and adapted to close or regulate the areas of said passages.

Other features and advantages of the invention will appear from the following description taken in connection with the drawing, wherein:

Figure 1 is a side elevational view illustrating the improved container and showing a band slidably mounted thereon.

Figure 2 is an end elevational view of the container shown in Figure 1 illustrating the tubular elements through which the passages extend and in which said elements are shown in dotted lines.

Figure 3 is a cross section through the container with the parts shown on an enlarged scale and illustrating the relative positions of the tubular elements and band.

Figure 4 is a similar section taken on line 4—4 of Figure 3 also showing the tubular elements and band.

Figure 5 is a detail illustrating the relative positions of openings in the band and passages through the tubular elements and illustrating the means of regulating the areas of said passages.

Figure 6 is a cross section similar to that shown in Figure 3 illustrating a modification wherein the device is provided with two tubular elements instead of three and in which the centrally positioned spider is omitted.

Figure 7 is a section taken on line 7—7 of Figure 6 showing the modification illustrated in Figure 6.

Figure 8 is a plan view illustrating one of the sections of the device illustrated in Figures 6 and 7.

Referring now to the drawing wherein like reference characters denote corresponding parts the improved spherical container of this invention includes a spider **10** having passages **11** extended through tubular elements **12**, semi-spherical side members **13** and **14** mounted on the spider **10**, and a band **15** having openings **16**, **17** and **18** therein and also having an eye **19** extended therefrom.

In the design illustrated in Figures 1 to 4, inclusive the two halves of the sphere are mounted in annular grooves **20** and **21** of the spider **10** whereby the edges of the halves or sections **13** and **14** are in spaced relation providing an annular groove **22** in which the band or ring **15** is positioned. With the passages **11** opening into the groove **22**, the outer ends thereof are positioned to register with the openings **16**, **17** and **18** of the band **15**, whereby the passages are adapted to be closed, opened, or partly opened by sliding the band on the spider.

With these openings positioned as illustrated in Figure 3 they are adapted to close the passages **11** with the band **15** positioned as illustrated in the upper section in Figure 5 and with the band moved slightly whereby the opening **18** extends over one of the passages **11**, the device is provided with a small outlet passage and with the movement of the band continued to the position shown in the third section two of the passages are open. With the continued movement of the band **15** all of the passages **11** may be opened, as shown in the lower section in Figure 5. By this means the emanation from the liquid in the container is readily controlled whereby any quantity thereof desired may be permitted to escape into the atmosphere.

With the parts formed as illustrated in Figures 6, 7 and 8 the container is provided with an upper semi-spherical section **23** having a tubular element **24** with a passage **25** therethrough extended inwardly from one point and a lower semi-spherical section or shell **26** having a tubular element **27** with a passage **28** therethrough, and the two sections are secured together with cement, or other suitable means.

The sphere formed with the sections **23** and **26** is provided with an annular groove **29** in which a band **30** similar to the band **15** is positioned and the band **30** is provided with openings **31** and **32** that are adapted to register with the passages **25** and **28** to control the emanation from the perfume or other liquid in the sphere. The band **30** is also provided with an eye **33** by which it may be suspended from a clasp or the like.

The liquid container of this invention may, therefore, be provided with any suitable number of tubular elements with the elements extended from the periphery of the sphere to points spaced from the center thereof. With the parts provided in this manner it is substantially impossible to pour liquid from the sphere. The liquid may be placed in the sphere with a hypodermic type syringe, eye dropper, or the like, and with the sphere formed of transparent material, such as plastic, the amount of liquid in the sphere may readily be determined.

It will be understood that modifications, within the scope of the appended claims, may be made into the

design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. A sectional spherical shell having a spider having an annular rim with annular recesses in the edges and radially disposed tubular elements with open passages therethrough extended inwardly from the shell to points spaced from the center thereof, the sections of said shell having the edges thereof positioned in said recesses and a band slidably mounted on said shell intermediate of the edges of said sections and having openings therethrough, said band adapted to be positioned whereby the openings therethrough register with the open passages of the tubular elements.

2. A sectional spherical shell having a spider having an annular rim with annular recesses in the edges and radially disposed tubular elements with open passages therethrough extended inwardly from the shell to points spaced from the center thereof, the sections of said shell having the edges thereof positioned in said recesses said shell intermediate of the edges of said sections having an annular groove into which said passages open, and a band slidably mounted in the groove on said shell, said band having an eye extended therefrom, openings therethrough and adapted to be positioned selectively whereby the band closes said passages, or whereby the openings therethrough register with the open passages of the tubular elements.

3. In a spherical container, the combination which comprises a spider having an annular rim with annular recesses in the edges and having tubular elements with open passages therethrough extended radially from the rim to points spaced from the center, semi-spherical transparent shells positioned with edges thereof in the annular recesses of the rim of the spider, a band having openings therethrough positioned between edges of the semi-spherical sections and slidably mounted on the peripheral surface of the rim of the spider, said band adapted to be positioned to close the openings at the ends of the passages through the tubular elements of the spider and also positioned to open said passages.

4. In a liquid container, the combination which comprises a circular shaped spider having radially disposed tubular elements extended from the periphery of the spider and positioned whereby passages through said tubular elements open into the periphery of said spider, annular recesses in the opposite peripheral edges of said spider, semi-spherical sections having thin peripheral edges positioned in said recesses and a band having openings therethrough slidably mounted on the periphery of said spider and positioned whereby the openings are adapted to register with the passages through said tubular elements.

5. In a liquid container, the combination which comprises a circular shaped spider having radially disposed tubular elements extended from the periphery of the spider and positioned whereby passages through said tubular elements open into the periphery of said spider, annular recesses in the opposite peripheral edges of said spider, semi-spherical sections having thin peripheral edges positioned in said recesses and a band having openings therethrough slidably mounted on the periphery of said spider and positioned whereby the openings thereof are adapted to register with the passages through said tubular elements, said sections being formed of transparent material.

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