Sept. 24, 1940. J. E. VIVAUDOU ET AL 2,215,988

COVERED SACHET BALL

Filed Oct. 5, 1939

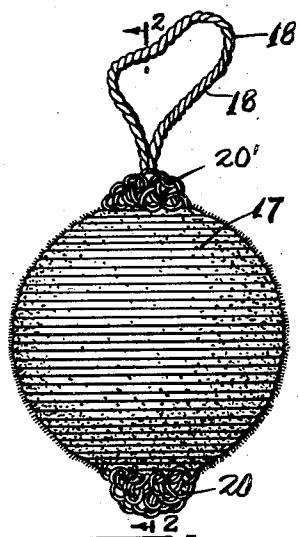


Fig. 1.

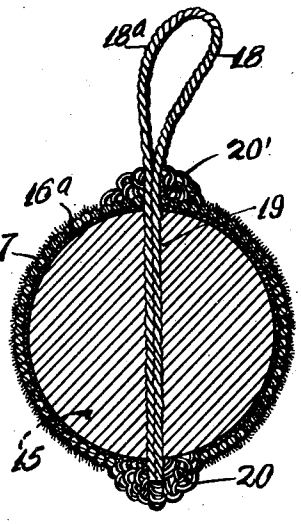


Fig. 2.

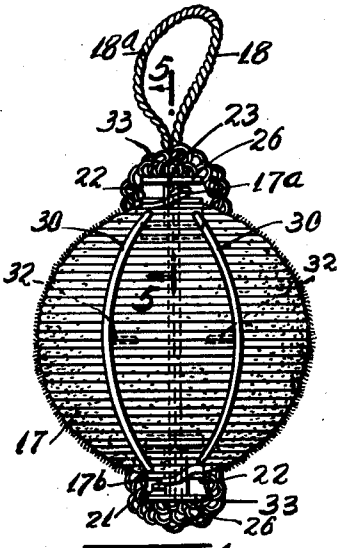


Fig. 4.

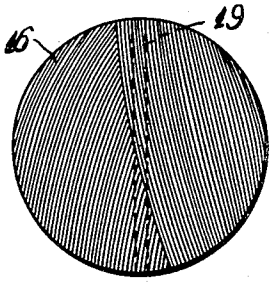


Fig. 3.

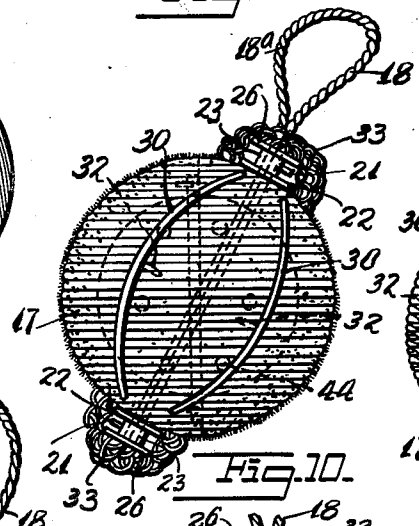


Fig. 10.

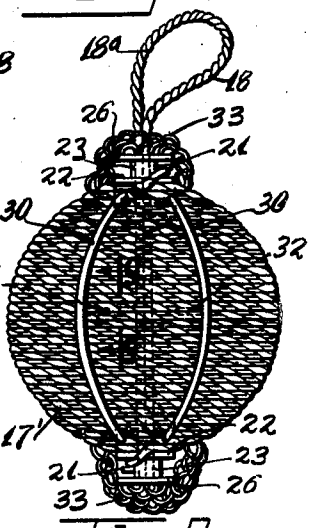


Fig. 8.

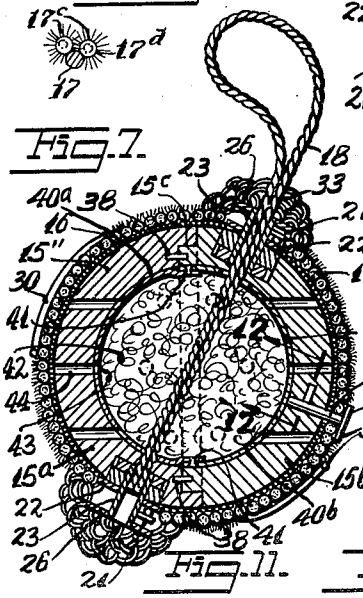


Fig. 11.

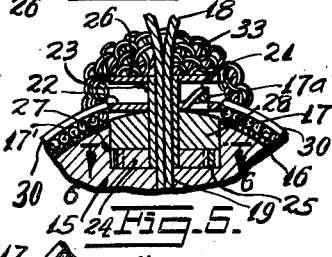


Fig. 5.

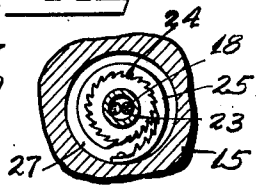


Fig. 6.

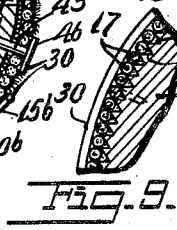


Fig. 9.

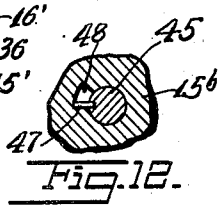


Fig. 12.

INVENTORS
Jean E. Vivaudou
Henry G. Lubin
BY
ATTORNEY

Patented Sept. 24, 1940 2,215,988

UNITED STATES PATENT OFFICE

2,215,988

COVERED SACHET BALL

Jean E. Vivaudou and Henry G. Lubin,
New York, N. Y.

Application October 5, 1939, Serial No. 298,018

8 Claims. (Cl. 299—20)

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

The invention has for an object the construction of a sachet ball which is characterized by a ball core, a covering mounted thereon and a chenille thread closely wound upon the covering.

More specifically the invention proposes to arrange the covering that it may be impregnated with perfume or other scented material.

Still further the invention proposes to so arrange the chenille thread to engage over the covering in a way to permit a gradual escape of the odors contained in the covering.

Another object of the invention resides in the provision of a supporting cord by which the sachet ball may be supported in a closet or other place.

Still further the invention proposes a construction whereby the chenille thread may be removed when desired to expose the thread covering which may be then immersed in perfume or other scented material to replenish its supply of perfume.

Still further the invention proposes a novel means for holding a chenille thread in position in a way so that it may be removed when desired.

A further object of the invention resides in so constructing the surface of the ball core to assist the chenille thread in maintaining its position upon the sachet ball.

Still further the invention proposes a modified form of the sachet ball which is characterized by a construction wherein the ball core is hollow and provided with a hollow spherical shell holding perfumed material.

Another object of the invention resides in an arrangement for controlling the escape of the scent of the perfumed material from the hollow shell through apertures in the ball core to the exterior.

Still further the invention proposes the construction of a device as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

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 side elevational view of a covered sachet ball constructed in accordance with this invention.

Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is an elevational view of a ball core with the thread covering, illustrated per se.

Fig. 4 is a side elevational view of a covered sachet ball constructed in accordance with a modification of this invention.

Fig. 5 is a fragmentary enlarged sectional view taken on the line 5—5 of Fig. 4.

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

Fig. 7 is a transverse sectional view of the chenille thread.

Fig. 8 is a side elevational view of a covered sachet ball constructed in accordance with a modification of this invention.

Fig. 9 is a fragmentary enlarged sectional view taken on the line 9—9 of Fig. 8.

Fig. 10 is a side elevational view of another covered sachet ball constructed in accordance with another form of this invention.

Fig. 11 is a vertical sectional view of the sachet ball illustrated in Fig. 10.

Fig. 12 is a fragmentary sectional view taken on the line 12—12 of Fig. 11.

The covered sachet ball in accordance with this invention includes a ball core 15 having a thread covering 16 mounted upon its surface and adapted to hold sachet scented substances. A chenille thread 17 is closely wound and mounted upon the covering 16 to ornament the sachet ball, and furthermore to encase the thread covering in a way so that the odor from the scented thread covering may slowly escape. The thread covering 16 is illustrated in greater detail in Fig. 3. In this figure a thread is shown wound about the ball core 15 in a way so as to cover the entire surface of the ball core. This thread may be a silk thread, or other suitable thread capable of holding scented substances. The chenille thread 17 is wound about the thread 16 in a manner so that its turns are close to each other. Preferably adhesive material may be applied to the surface of the thread 16 to assist in holding the chenille thread upon the thread covering 16. A very small quantity of adhesive is necessary, particularly at the small turns of the chenille thread to prevent these turns from leaving the thread covering 16.

A means is provided by which the sachet ball may be supported on a hook or other object in a clothes closet or other place. This means comprises a cord 18 secured to the sachet ball. The core 15 is formed with an opening 19 which extends through from end to end along a diameter.

The cord 18 is bent at its center and the two ends are passed through the opening 19, so that there is an outer loop end 18a by which the cord may be engaged on a hook, nail or other supporting member. A cotton, or silk, or other ornament 20 is secured to the ends of the cord 18 and serves to hold the cord in fixed position. Another ornament 20' engages about the thread 18 at a point where the thread comes out from the ball core 15.

In Figs. 4 to 7 inclusive, a modified form of the invention has been disclosed which distinguishes from the prior form in the fact that a novel means has been provided for releasably holding the chenille thread in position on the thread covering in a way so that it may be removed when desired. This permits the application of new scented material upon the thread covering. More specifically according to this form of the invention the sachet ball includes a ball core 15, a thread covering 16, permanently mounted thereon preferably by being pasted or cemented in position, or being so wound that certain sections of the thread overlap other of the sections of the thread to assist in maintaining the thread covering in place. The chenille thread 17 is wound upon the covering 16. This chenille thread has one of its ends 17a secured by a clamp 21 to a certain disc 22. The other end 17b of the chenille thread is secured by a similar clamp 21 to another disc 22.

Each of the discs 22 is mounted on a tube 23 which extends radially inwards into a portion of the ball core 15. At its inner end the tube 23 supports a ratchet 24. A pawl 25 is cooperative with the ratchet 24 for holding the ratchet in various turned positions. The disc 22 is fixedly mounted on the tube 23. The outer end of each tube 23 is provided with a head 26 by which the tube may be turned. The tubes 23 are arranged coaxial with the opening 19 in a way so that the cord 18 may pass through the opening 19. Each ratchet wheel 24 is mounted in a cavity 27 formed in the ball core 15. A block 28 is engaged into the outer end of the cavity 27 and serves to hold the ratchet 24 in position in the base portion of the cavity.

Several resilient strips 30 are arranged in spaced positions about the sachet ball and extend transversely of the turns of the chenille thread 17 and are fixedly mounted in a way so as to assist in holding the turns of the chenille thread in position. More particularly each resilient strip 30 comprises a spring strip or other similar strip which at its center is provided with a fastening element 32 in the form of a pointed peg. This peg is driven into the material of the core 15 to hold the resilient strip fixedly in position. The end portions of the strips 30 engage over the end turns of the chenille thread 17 for holding these turns in position.

Each disc 22 is covered with decorative ornaments 33 which may be of cotton or other substances. The arrangement is such that the head 26 may be turned by gripping the ornament 33. The chenille thread 17 is formed from several cotton threads 17c which are knotted with each other in the conventional way in which a chenille thread is formed, and serve to hold fibers of the chenille thread. An elastic thread 17d serves to slightly contract the chenille thread so that it is slightly resilient. This permits the chenille thread to be stretched and be placed under slight tension.

The operation of this form of the invention is as follows:

The covered sachet ball is supported in a closet or other desirable place by mounting the cord 18 upon a hook, nail or other supporting element. After it has been in use for some time and the perfume scented material becomes weak, the perfume may be repenlished in the following way. The edge portions of the ornament 33 are lifted up so that the clamps 31 are exposed. The ends 17a of the chenille thread are then freed from the clamps 21. The end portions of the chenille thread may be now unwound by pulling the turns free from the end portions of the resilient strips 30. If desired all of the chenille covering may be removed. Then the ball is partially immersed into the perfume or other scented substances which become impregnated in the thread covering 16.

After the thread covering 16 has been resupplied with scented material, the chenille thread 17 is rewound into position. Each turn as it is wound, is engaged beneath the end portions of the resilient strips 30. The free ends 17a of the chenille thread are then engaged by the clamps 21. The rewinding of the chenille thread may leave it slightly loose with areas of the thread puffed out. This may be corrected by turning the pegs 26 to turn the discs 22 which in turn pull upon the end portions of the chenille thread 17. In this way the thread 17 may be placed under suitable tension. The tension may be such that the chenille thread 17 is slightly stretched opening up the areas between the turns thereof through which the scent from the sachet may easily pass.

In Figs. 8 and 9, a modified form of the invention has been disclosed which is very similar to the form illustrated in Figs. 4 to 7 inclusive, distinguishing merely in the fact that the surface of the ball core 15' is formed with a continuous spiral groove 36 extended about the surface of the ball core in a path simulating the path of the twisted cordage or chenille thread 17'. Preferably the groove 36 is of V-shape in transverse cross section. The thread covering 16' is wound along the base area of the groove 36. The twisted cordage 17' is wound along the outside of the groove 36. In other respects this form of the invention is identical to the prior form and the same parts may be recognized by the same reference numerals. The advantage of this construction resides in the fact that the groove 36 assists in holding the twisted cordage 17' in position upon the thread covering 16'.

In Figs. 10 to 12 inclusive, another modified form has been disclosed which is very similar to the form illustrated in Figs. 4 to 7 inclusive, distinguishing in the fact that the sachet ball has a ball core 15'' formed from separable hollow sections 15a and 15b. These sections have interengaging edge portions 15c which when engaged with each other hold the sections together as a unit. At certain areas, pins 38 project from one of the ball core sections and engage in receiving openings in the other of the sections to hold the sections in relatively fixed positions.

A hollow spherical shell 40 is mounted within the hollow of the ball core 15''. This spherical shell 40 is formed from separable sections 40a and 40b which have overlapping edge portions. Pins 41 are mounted on the outer of the overlapping portions and engage into receiving apertures formed in the inner of the overlapping portions for releasably holding the sections 40a and 40b connected with each other.

Sachet scented substance 42, in powder form, cake form, or other forms, are placed within the spherical shell 40. The spherical shell 40 is formed with a plurality of apertures 43 which are normally aligned with apertures 44 formed in the ball core 15''. A means is provided by which the spherical shell 40 may be turned to move the aligned apertures out of aligned positions. This means includes a stem 45 engaged with one of the sections of the spherical shell 40 and extending radially outwards through the material of the ball core 15''. A knob 46 is mounted upon the outer end of the stem 45. A radial pin 47 is mounted on one side of the stem 45 and engages in an arcuate opening 48 formed in the material of the ball core 15'' which surrounds the stem. The arrangement is such that the turning of the stem 45 is limited through a certain angular distance which is just sufficient to place the apertures 43 and 44 into alignment with each other or to a position in which these apertures are out of alignment with each other.

In other respects this form of the invention is identical to the form illustrated in Figs. 4 to 7 and identical parts may be recognized by the same reference numerals.

The operation of the device is as follows:

The knob 45 may be turned to control the alignment of the apertures 43 and 44 which in turn control the rate at which the odor from the scented substance 42 may emerge from the sachet ball. When the scent becomes too weak, the perfume of the sachet ball may be replenished as follows:

First the chenille thread 17 is removed. Then the thread covering 16 is removed. The sections of the ball core 15'' are then separated exposing the spherical shell 40. The sections of the shell are then opened by pressing inwards the inner of the overlapping edges of the shell to disengage the pins 41 from the adjacent openings. The scented substance 42 may then be replaced or replenished with perfumed material. The shell 40 is then closed and the sections of the ball core 15'' are engaged with each other. Next the covering thread 16 is wound in position upon the ball core 15''. The knob 46 is turned to a position in which the apertures 43 and 44 are out of alignment with each other. The thread covering 16 is impregnated with sachet scented material. The chenille thread 17 is now rewound and the ends thereof engaged by the clamps 21. The chenille thread may then be placed under suitable tension by turning the head 26. The knob 46 may now be turned to rotate the spherical shell 40 to a position in which the apertures 43 and 44 are in alignment with each other or partially aligned. The sachet ball is now ready to be used.

The sachet ball in accordance with this form of the invention will last a longer period of time than in its prior construction, in that as the scent becomes weak from the thread covering 16, it will be supplemented by the scent which passes out from the aligned apertures 43 and 44. Expressed in other words, the sachet ball is capable of holding a larger quantity of scented substances, since it holds the substances in its interior as well as on its periphery.

While we have illustrated and described the preferred embodiments of our invention, it is to be understood that we do not limit ourselves 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 our invention, what we claim as new, and desire to secure by United States Letters Patent is:

1. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, and means for releasably holding said chenille thread in its closely wound position, including resilient strips mounted upon said ball core and having flexible end portions engaged transversely across the turns of said chenille thread.

2. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, and means for releasably holding said chenille thread in its closely wound position, including resilient strips mounted upon said ball core and having flexible end portions engaged transversely across the turns of said chenille thread, and means for holding the ends of said chenille thread in various pulled positions to add tension to the chenille thread.

3. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, and means for releasably holding said chenille thread in its closely wound position, including resilient strips mounted upon said ball core and having flexible end portions engaged transversely across the turns of said chenille thread, and means for holding the ends of said chenille thread in various pulled positions to add tension to the chenille thread, comprising tubes turnably mounted on said ball core, means for holding said tubes from turning in one direction, a disc mounted on each tube and provided with a clamp for holding the ends of the chenille thread.

4. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, and means for releasably holding said chenille thread in its closely wound position, including resilient strips mounted upon said ball core and having flexible end portions engaged transversely across the turns of said chenille thread, and means for holding the ends of said chenille thread in various pulled positions to add tension to the chenille thread, comprising tubes turnably mounted on said ball core, means for holding said tubes from turning in one direction, a disc mounted on each tube and provided with a clamp for holding the ends of the chenille thread, and each tube being provided with a head by which the tube may be turned in the direction permitted.

5. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, and means for releasably holding said chenille thread in its closely wound position, said ball core being made from hollow separable sections, a hollow spherical shell mounted within said sections, means for turning said shell, said shell being provided with apertures normally aligned with apertures extending through said ball core, and sachet scented substances mounted within said spherical shell.

6. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely

wound on said covering, and means for releasably holding said chenille thread in its closely wound position, said ball core being made from hollow separable sections, a hollow spherical shell mounted within said sections, means for turning said shell, said shell being provided with apertures normally aligned with apertures extending through said ball core, and sachet scented substances mounted within said spherical shell, and means for releasably connecting the sections of said spherical shell.

7. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, and means for releasably holding said chenille thread in its closely wound position, said ball core being made from hollow separable sections, a hollow spherical shell mounted within said sections, means for turning said shell, said shell being provided with apertures normally aligned with apertures extending through said ball core, and sachet scented substances mounted within said spherical shell, and means for fixedly and releasably connecting the sections of said ball together.

8. A covered sachet ball, comprising a ball core, a thread covering for said core for holding sachet scented substances, a chenille thread closely wound on said covering, a cord bent at its center, said cord having its free ends passing through an opening extended diametrically through said ball, and means for preventing said cord from being withdrawn from said opening forming a loop by which said ball may be hung from a nail or other support means.

JEAN E. VIVAUDOU.
HENRY G. LUBIN.