WINE AERATION ASSEMBLY

The present invention relates to a decanter assembly, comprises a bottle structure, a seat portion and a motor means; the bottle structure is disposed on the seat portion; the seat portion comprises a base and a shield which is disposed on the base, the shield surroundingly forms a cavity for containing the bottle structure; the bottle structure is contained in the cavity, a magnet is disposed at the bottom of the bottle structure; the motor means is disposed in the base under the bottle structure, the motor means drives the magnet to rotate, thus stirring the wine in the bottle structure and therefore decanting the wine. The magnet, driven by the motor, is rotated to stir wine in the bottle structure at a constant rate, at the same time light emitted by the LED lamp directly illuminates the wine in the bottle, combining with the vibration caused by the low frequency music, all of these provides the function of accelerating the decanting.
Description

FIELD OF THE INVENTION

[0001] The invention relates to the technology field of decanters, more particularly relates to a decanter assembly.

BACKGROUND OF THE INVENTION

[0002] CN204561894U discloses a musical illuminated wine decanter apparatus including a body which having an illuminated musical portion and a wine pipe, the illuminated musical portion internally mounts a MP3 player, the surface of the illuminated musical portion is equipped with a USB jack and an annular LED lamp, the annular LED lamp is disposed at the junction of the illuminated musical portion and the wine pipe. The utility model discloses a decanter having musical broadcast and light scintillation function. People can enjoy music and light scintillation when the wine is decanted, thus adjusting the atmosphere for enjoying drinking and listening to the music at the same time.

[0003] The above-mentioned apparatus is a kind of static device with the disadvantages of not good enough decanting effect and simple function.

[0004] Accordingly, it is urgently required to provide a decanter assembly to overcome the deficiencies of the prior art.

SUMMARY OF THE INVENTION

[0005] To overcome the above shortcomings, the present invention provides a decanter assembly with good effect of decanting and multiple functions.

[0006] The technical proposal in the present invention are as followings:

A decanter assembly, includes a bottle structure, a seat portion and a motor means; the bottle structure is disposed on the seat portion; the seat portion comprises a base and a shield which is disposed on the base, the shield surroundingly forms a cavity for containing the bottle structure; the bottle structure is contained in the cavity with a magnet being disposed at the bottom of the bottle structure; the motor means is disposed in the base under the bottle structure, the motor means drives the magnet rotating, hence the wine in the bottle structure being stirred and thus being decanted.

[0007] The bottle structure comprises a bottle and a bottle seat which is disposed at the bottom of the bottle, a rotating chamber is arranged in the bottle seat, the magnet is contained in the rotating chamber.

[0008] Preferably, a silicone sealing pad is disposed at the bottom of the bottle seat.

[0009] Preferably, a groove, which is correspondent to the bottle seat, is arranged at the bottom of the cavity.

[0010] The base comprises an upper shell, a lower shell, and a chamber body between them thereof; the motor means comprises a motor seat, a motor, and a magnet; the motor seat is located on the lower shell, the motor is contained in the motor seat, the magnet is disposed on the motor; the chamber body is provided with a main circuit board which is electrically connected with the motor.

[0011] The decanter assembly also comprises a LED lamp apparatus which is contained in the chamber body and is disposed on the motor seat, the LED lamp apparatus comprises a LED lamp board, LED lamps and a lampshade; the LED lamp board is fixed on the motor seat, the LED lamps are uniformly distributed on the LED lamp board; the lampshade is transparent and covers the LED lamp board; the LED lamps are electrically connected with the main circuit board, the light emitted by the LED lamp is three primary colors RGB.

[0012] A first through hole is provided on the upper shell, a second through hole is provided in the groove, the motor means and the LED lamp apparatus are provided at the first through hole, so that the LED lamp can directly illuminate the bottle structure being seated on the groove.

[0013] Furthermore, an audio input port is provided on the base, circular iron net is provided on the shield, horns are provided on the circular iron nets.

[0014] Preferably, a touch assembly is provided on the base, the touch assembly comprises a touch screen, a touch circuit board, a display screen, a display circuit board.

[0015] Preferably, the base is provided with pads at its bottom side.

[0016] Preferably, the base is provided with DC power input port.

[0017] The decanter assembly in the present invention has the following advantages: the magnet rotates under the driven by the motor, so as to stir the wine in the bottle structure at a constant rate, at the same time the light emitted from the LED lamps directly illuminates the wine in the bottle structure, combining with the vibrating of the low frequency music, all of these have the function of decanting the wine quickly, the music and the light can adjust the atmosphere and provide nice visual effect and audio effect, thus the people can visually, acoustically, and tastily enjoy the decanting process, which can greatly improve the joyful of drinking.

BRIEF DESCRIPTION OF THE DRAWINGS

[0018] Fig. 1 shows the isometric view of the seat of the decanter assembly in present invention;

Fig.2 shows the exploded view of the decanter assembly;
Referring Fig.1 to Fig.5, a decanter assembly, which comprises a bottle structure 100, a seat portion 200 and a motor means 300.

The bottle structure 100 is disposed on the seat portion 200. The bottle structure 100 comprises a bottle 110, a seat portion 200 and a motor 320. The bottle 110 is contained in the cavity 221. A motor means 300 is disposed in said base under said bottle structure.

The seat portion 200 comprises a base 210 and a shield 220 which is set on the base 210. A first though hole 211 is provided on the upper shell 211, a second though hole is provided in the groove 222, the motor means 300 and the LED lamp apparatus 215 are provided at the first through hole 211, so that the LED lamps 2152 can directly illuminate the bottle structure 100 being seated on the groove 222.

Furthermore, an audio input port 216 is provided on the base 210, circular iron nets 224 are provided on the shield 220, horns 225 are provided on the circular iron nets 224. The audio input port 216 is used for playing low frequency music, the vibration caused by low frequency music accelerates the process of decanting.

Preferably, a touch assembly 217 is provided on the base 210, the touch assembly 217 comprises a touch screen 2171, a touch circuit board 2172, a display circuit board 2174 etc. The touch screen 2171, a display screen 2173, a display circuit board 2174 etc. The touch screen 2171 is used for selecting the working mode, for example stirring mode, stirring - low frequency music mode, stirring-LED lamps mode, stirring-LED Lamp - low frequency music model etc., it is convenient for using.

Preferably, pads are provided at the bottom side of the base 210. The pads provide the protecting function from shock.

Preferably, A DC power input port is provided on the base 210. The DC power input port can connect with portable battery, it is convenient for using.

While the specification has described in detail certain exemplary embodiments, it will be appreciated that those skilled in the art, upon attaining an understanding of the foregoing, may readily conceive of alterations to, variations of, and equivalents to these embodiments.

The bottle structure 100 comprises a bottle and a bottle seat portion which are disposed on the base 210 forming a cavity for containing the bottle structure; said seat portion comprises a base and a shield which is disposed on the base, said shield surroundingly forms a cavity for containing the bottle structure; said bottle structure is contained in said cavity, a magnet is provided at the bottom of said bottle structure; said bottle structure is contained in said cavity, a magnet is provided at the bottom of said bottle structure; said motor means is disposed in said base under said bottle structure, said motor means drives said magnet rotating, hence stirring the wine in said bottle structure and thus decanting the wine.

1. A decanter assembly, wherein comprises a bottle structure, a seat portion and a motor means; said bottle structure is disposed on the seat portion; said seat portion comprises a base and a shield which is disposed on the base, said shield surroundingly forms a cavity for containing the bottle structure; said bottle structure is contained in said cavity, a magnet is provided at the bottom of said bottle structure; said motor means is disposed in said base under said bottle structure, said motor means drives said magnet rotating, hence stirring the wine in said bottle structure and thus decanting the wine.

2. A decanter assembly according to claim 1, wherein said bottle structure comprises a bottle and a bottle seat which is disposed at the bottom of said bottle, a rotating chamber is arranged in said bottle seat,
said magnet is contained in said rotating chamber.

3. A decanter assembly according to claim 2, wherein a silicone sealing pad is disposed at the bottom of the bottle seat.

4. A decanter assembly according to claim 2, wherein a groove, which is correspondent to the bottle seat, is arranged at the bottom of the cavity.

5. A decanter assembly according to any one of claim 1-4, wherein said base comprises an upper shell, a lower shell, and a chamber body between them; said motor means comprises a motor seat, a motor and a magnet; said motor seat is located on said lower shell, said motor is contained in said motor seat, said magnet is disposed on said motor; said chamber body is provided with a main circuit board which is electrically connected with the motor.

6. A decanter assembly according to claim 5, wherein said decanter assembly also comprises a LED lamp apparatus contained in the chamber body and is disposed on said motor seat, said LED lamp apparatus comprises a LED lamp board, LED lamps and a lampshade; said LED lamp board is fixed on said motor seat, said LED lamps are uniformly distributed on said LED lamp board; said lampshade is transparent and covers said LED lamp board; said LED lamps are electrically connected with said main circuit board, light emitted by said LED lamps is three primary colors RGB.

7. A decanter assembly according to claim 6, wherein a first though hole is provided on said upper shell, a second though hole is provided in said groove, said motor means, and said LED lamp apparatus are provided at said first through hole, so that said LED lamps can directly illuminate said bottle structure being seated on said groove.

8. A decanter assembly according to claim 1, wherein an audio input port is provided on said base, circular iron nets are provided on said shield, horns s are provided on the circular iron nets.

9. A decanter assembly according to claim 1, wherein a touch assembly is provided on said base, said touch assembly comprises a touch screen, a touch circuit board, a display screen, a display circuit board.

10. A decanter assembly according to claim 1, wherein said base is provided with pads at its bottom side; DC power input is provided on said base.
Fig. 5
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

A47J 43/00 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

A47J 43, B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNABS, DWPI, CNKI: sober up, decanter, magnet-

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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<td>CN 106073532 A (DONGGUAN KINYET METAL PRODUCTS CO., LTD.) 09 November 2016 (09.11.2016) claims 1-10</td>
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* Further documents are listed in the continuation of Box C. **See patent family annex.**

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Date of the actual completion of the international search: 12 December 2016
Date of mailing of the international search report: 22 December 2016

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MA, Tianqi
Telephone No. (86-10) 62085407

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REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

• CN 204561894 U [0002]