invention will be readily apparent to those ordinarily skilled in the art from the contents disclosed by the description.

First, please refer to FIG. 1 to FIG. 4 of a pressure regulating valve 100 for a cupping negative pressure apparatus according to the present invention. The pressure regulating valve 100 can be divided into four components, including a pressure regulating valve screw cap 1, a pressure regulating valve body 2, a metal nut structure 3 and a muffler cover 4.

Further, inside the pressure regulating valve body 2 is provided with a pressure regulating valve filter trough 22, and a metal nut structure assembly seat 21 is disposed above the pressure regulating valve filter trough 22, the metal nut structure 3 is tightly mounted in a metal nut structure placement hole 211 in the metal nut structure assembly seat 21 and is not detachable after being placed, and is integrally assembled with the metal nut structure assembly seat 21. The metal nut structure 3 is provided with a plurality of nut pressure relief holes 31 that communicate with circulation holes 212 of the metal nut structure placement hole 211.

Further, a user inserts a metal screw structure 12 disposed at a bottom of the pressure regulating valve screw cap 1 into the metal nut structure 3 installed in the metal nut structure assembly seat 21, and rotates the pressure regulating valve screw cap 1 to drive the metal screw structure 12 to rotate tightly into the metal nut structure 3 to cause the pressure regulating valve body 2 in an airtight state.

Further, a muffler cover assembly seat 215 disposed on the metal nut structure assembly seat 21 is capped and assembled with the muffler cover 4 by the user, so that a screw cap brim 11 of the pressure regulating valve screw cap 1 and retaining ring circulation holes 214 of the metal nut structure assembly

CLAIMS

What is claimed is:

1. A pressure regulating valve for a cupping negative pressure apparatus, characterized in that comprising:

a pressure regulating valve screw cap, a metal screw structure, a muffler cover, a muffler cover assembly seat, a metal nut structure, a pressure regulating valve body, quick-plug screw caps, a filter cotton and a filter cotton fixing cover, inside the pressure regulating valve body being disposed with a metal nut structure assembly seat, the metal nut structure assembly seat being assembled integrally with the metal nut structure, the metal nut structure being provided with a plurality of nut pressure relief holes that communicate with circulation holes of a metal nut structure placement hole, the pressure regulating valve screw cap being assembled integrally with the metal screw structure, through the metal nut structure and metal screw structure the pressure regulating valve screw cap being rotationally assembled with the pressure regulating valve body, rotating the pressure regulating valve screw cap to adjust an air flow amount in the pressure regulating valve body in order to adjust action of negative pressure force, the muffler cover being assembled with the muffler cover assembly seat to cover retaining ring circulation holes on the metal nut structure assembly seat to reduce air noise generated by air flowing to reach inside the pressure regulating valve body, the quick-plug screw caps being capped on negative pressure communication holes provided on the pressure regulating valve body for functioning as air suction and discharge passages, rotating one of the quick-plug screw caps to adjust whether the negative pressure communication hole being communicated or plugged, the quick-plug screw cap being not required to be removed to avoid getting lost, the filter cotton being disposed in a pressure regulating valve filter trough of the pressure regulating valve body and being

fixed inside the pressure regulating valve body by the filter cotton fixing cover, air being sucked in from the negative pressure communication hole passing through the filter cotton and essential oil and body grease in the air being adsorbed by the filter cotton before the air being discharged to prevent suction from being impaired.

2. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 1, wherein the pressure regulating valve needs to be connected in series between the cupping negative pressure apparatus and a negative pressure cup during use, the cupping negative pressure apparatus draws the air inside the negative pressure cup out through the pressure regulating valve to generate a negative pressure, and a magnitude of negative pressure force inside the negative pressure cup can be controlled by rotating the pressure regulating valve screw cap.

3. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 2, wherein a plurality of nut pressure relief holes are disposed around the metal nut structure inside the metal nut structure assembly seat, the pressure regulating valve screw cap and the pressure regulating valve body are rotationally assembled to be the most tightened, the metal screw structure is capable of blocking the nut pressure relief holes of the metal nut structure so that air is unable to flow into the pressure regulating valve body to cause an airtight state inside the pressure regulating valve body and to maximize the negative pressure force, the pressure regulating valve screw cap is loosened to make the metal screw structure to rotate upward slowly to expose the nut pressure relief holes of the metal nut structure, and to allow a small amount of air to flow to reach inside the pressure regulating valve body from the nut pressure relief holes in order to affect a negative pressure force of the cupping negative pressure apparatus to draw air out from the negative pressure cup, a

size of the nut pressure relief holes being exposed is changed according to rotation of the pressure regulating valve screw cap in order to affect an amount of air flowing into the pressure regulating valve body and to adjust the negative pressure force.

4. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 3, wherein inside the metal nut structure assembly seat is provided with a metal nut structure placement hole for inserting and assembling the metal nut structure, and the metal nut structure placement hole is disposed with circulation holes of placement hole communicating with the nut pressure relief holes of the metal nut structure, so that air flows smoothly to reach inside the pressure regulating valve body.

5. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 4, wherein the metal nut structure assembly seat is provided with a screw cap retaining ring, the pressure regulating valve screw cap is rotated downward to abut against the screw cap retaining ring until unable to be rotated downward anymore, so that the pressure regulating valve screw cap is rotated within a limited range to adjust the negative pressure force, and the screw cap retaining ring is provided with retaining ring circulation holes communicating with the nut pressure relief holes of the metal nut structure inside the pressure regulating valve body for allowing air to flow smoothly to reach inside the pressure regulating valve body.

6. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 5, wherein the metal nut structure assembly seat is provided with the muffler cover assembly seat for assembling the muffler cover, the retaining ring circulation holes of the screw cap retaining ring are located in a space between the muffler cover and the muffler cover assembly seat, and air is buffered after circulating from a gap between the muffler cover and the pressure

regulating valve screw cap to the space between the muffler cover and the muffler cover assembly seat, and then the air flows to the nut pressure relief holes of the metal nut structure of an innermost layer of the pressure regulating valve body to reduce air noise generated by rapid circulation of air when negative pressure is relieved.

7. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 1, wherein the pressure regulating valve body is disposed with the negative pressure communication holes, outside each of the negative pressure communication holes being provided with a quick-plug screw cap assembly thread and an internal thread of the quick-plug screw cap being rotationally assembled on the quick-plug screw cap assembly thread to block the unused negative pressure communication hole in order to prevent air from flowing from the unused negative pressure communication hole to reach inside the pressure regulating valve body to affect negative pressure massage

8. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 7, wherein the quick-plug screw cap is provided with a plurality of suction and discharge communication holes for communicating with the pressure regulating valve body, when the user loosens the quick-plug screw cap, the negative pressure communication hole of the pressure regulating valve body is capable of communicating with the suction and discharge communication holes of the quick-plug screw cap for performing negative pressure suction and release massage.

9. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 7, wherein the quick-plug screw cap is internally provided with a quick-plug plug, when the quick-plug screw cap is rotated to the tightest, the quick-plug plug blocks the negative pressure communication hole to achieve the effect of plugging.

10. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 9, wherein a quick-plug structure gasket groove is disposed between the quick-plug screw cap and the negative pressure communication hole, and a soft anti-pressure relief gasket is disposed in the quick-plug structure gasket groove to prevent a gap from generating when the quick-plug plug plugs the negative pressure communication hole to affect the negative pressure.

11. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 1, wherein the metal nut structure assembly seat is detachably disposed above the pressure regulating valve filter trough of the pressure regulating valve body, the metal nut structure assembly seat is separated from the pressure regulating valve filter trough, and the pressure regulating valve filter trough is washed with water or the filter cotton is replaced.

12. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 11, wherein the filter cotton fixing cover is provided with a plurality of annular holes, air first passes the filter cotton to adsorb essential oil and body grease, the remaining air passes through the annular holes of the filter cotton fixing cover, and then flows out from the middle to achieve filtering effect.

13. The pressure regulating valve for the cupping negative pressure apparatus as claimed in claim 11, wherein a silicone gasket is disposed around the metal nut structure assembly seat, after the metal nut structure assembly seat is installed in the pressure regulating valve body, the silicone gasket is capable of preventing a gap from forming at an assembly joint.