At least one closed handle is installed at a predetermined position of the casing of the wax machine. The handle is formed by elastic material, or the connection of the handle and the casing is preinstalled with an elastic part for connecting the casing with the handle, or a motor is installed in the casing of a wax machine. As a result, the user may use the wax machine easily and comfortably for a long time and the ache applied upon the arms of the user can be released.
WAX MACHINE BUFFER AND VIBRATION DEVICE

BACKGROUND OF THE INVENTION

(a) Field of the Invention

The present invention relates to wax machines, and particularly to a wax machine buffer and vibration device, wherein elastic material is installed to a handle directly or indirectly, or the connection of the handle and the casing is preinstalled with an elastic part for connecting the casing with the handle, or a motor is installed in the casing of a wax machine. As a result, the user may use the wax machine easily and comfortably for a long time and the ache applied upon the arms of the user can be released.

(b) Description of the Prior Art

The prior art wax machine has handle at the casing of the wax machine. Thereby, the user may hold the handle for waxing. The wax machine has a weight eccentric block and an eccentric shaft which can operate with a motor. Thereby, the rotary shaft of the whole system can rotate within a predetermined vibration direction, amplitude, and period. However, in the current wax machine, the vibrations of the weight eccentric block, and eccentric shaft are different in amplitudes, directions, and frequencies so that the user’s arms and elbows will feel ache and thus feel uneasy, especially for a worker who wax for a longer time.

SUMMARY OF THE INVENTION

Accordingly, the primary object of the present invention is to provide a wax machine buffer and vibration device, wherein at least one closed handle is installed at a predetermined position of the casing of the wax machine. The handle is formed by elastic material, the elastic material includes soft rubbers, soft PVC or other similar flexible material. As a result, the user may use the wax machine easily and comfortably for a long time and the ache applied upon the arms of the user can be released.

Another object of the present invention is to provide a wax machine buffer and vibration device, wherein and the connection of the handle and the casing is preset with an elastic part for connecting the casing with the handle. A distal end of the handle is locked by one of a group containing a buckling arm, and screws, and adhesive, so as to be fixed to a predetermined position of the casing.

Another object of the present invention is to provide a wax machine buffer and vibration device, wherein the handle has a shape like “8”, “C” or other symmetric or asymmetric shapes. A distal end of the handle is locked by one of a group containing a buckling arm, and screws, and adhesive, so as to be fixed to a predetermined position of the casing.

The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an assembled perspective view of the first embodiment of the present invention.

FIG. 2 is an exploded perspective view of the first embodiment of the present invention.

FIG. 3 is an exploded perspective view of the handle of another embodiment of the present invention.

FIG. 4 is an exploded perspective view of the handle of a further embodiment of the present invention.

FIG. 5 is an assembled perspective view of the second embodiment of the present invention.

FIG. 6 is an exploded perspective view of the handle in the third embodiment of the present invention.

FIG. 7 is an assembled schematic cross sectional view of the third embodiment according to the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to FIG. 1, the first embodiment of the wax machine buffer and vibration device of the present invention is illustrated. At least one closed handle 2 is installed at a predetermined position of the casing 1 of the wax machine 10. The handle 2 is formed by an elastic material 3. The root portion of the handle 2 may have any desired form, for example, it is locked by a buckling arm, or screws, or adhesive, etc., so as to be fixed to a predetermined position of the casing 1 (referring to FIGS. 2 and 3). The handle can have a unclosed form, as the handle 2a in FIG. 4, or the root of the handle is installed with a spring, for example, referring to FIG. 3, the spring 22 at a predetermined position between two roots of the handle 2b.

The elastic material 3 of the handle 2 includes a soft rubber, soft PVC, or other similar flexible material. The spring 22 is metal or nonmetal springs acting a pressure, pulling force or torsion force to objects or reeds, etc.

Likely, other than the elastic material 3 is directly applied to the handle 2, the elastic material 3 may be indirectly installed to the connecting portion of the handle 2. That is the embodiment illustrated in FIGS. 5 and 6. The wax machine 10 can be preset with an elastic part 4 at a predetermined position of the casing 1. Similarly, the elastic part 4 may be adhered by buckling arms or screws, or adhesives for fixing the casing 1 upon a predetermined position. The elastic part 4 includes soft rubbers, soft PVC, or other similar flexible material.

Similarly, as the third embodiment illustrated in FIG. 7, the motor 5 in the casing 1 of the wax machine 10 can be fixed and enclosed by elastic material 3 and the motor 5, weight eccentric block 51 and eccentric shaft 52 can displace in a three-dimensional space for absorbing the vibration of the weight eccentric block 51 as the motor 5 operates.

By above direct or indirect methods, the elastic material 3 and elastic part 4 are installed at the connection of the handle 2 and handle 2, or the elastic material 3 encloses the motor 5 so as to be formed as a vibration buffer. Thereby, the vibration from the waxing device to the arm of the user can be reduced effectively. As a result, the user may use the wax machine easily and comfortably for a long time and the ache applied upon the arms of the user can be released.
The handle 2, 2a, 2b combined to the casing 1 of the wax machine 10 may have a shape like “8”, “C” or other symmetric or asymmetric shapes.

Although the present invention has been described with reference to the preferred embodiments, it will be understood that the invention is not limited to the details described thereof. Various substitutions and modifications have been suggested in the foregoing description, and others will occur to those of ordinary skill in the art. Therefore, all such substitutions and modifications are intended to be embraced within the scope of the invention as defined in the appended claims.

1. A wax machine buffer and vibration device, wherein at least one closed or unclosed handle 2 is installed at a predetermined position of a casing 1 of a wax machine 10; and the handle 2 is formed by elastic material 3.

2. The wax machine buffer and vibration device as claimed in claim 1, wherein a distal end of the handle is locked by one of a group containing a buckling arm, and screws, and adhesive, so as to be fixed to a predetermined position of the casing.

3. The wax machine buffer and vibration device as claimed in claim 1, wherein the closed or unclosed handle 2 has a spring 22 at a predetermined position of a distal end 21.

4. The wax machine buffer and vibration device as claimed in claim 1, wherein the elastic material 3 includes is selected from one of a group containing soft rubbers, soft PVC and other similar flexible material.

5. The wax machine buffer and vibration device as claimed in claim 3, wherein the spring 22 is metal or nonmetal springs acting a pressure, pulling force or torsion force to objects or reeds.

6. The wax machine buffer and vibration device as claimed in claim 1, wherein the handle 2, 2a, 2b has a shape like “8”, “C” or other symmetric or asymmetric shapes.

7. A wax machine buffer and vibration device, wherein at least one closed or unclosed handle 2 is installed at a predetermined position of a casing 1 of a wax machine 10; and a connection of the handle 2 and the casing 1 is preset with an elastic part 4 for connecting the casing 1 with the handle 2.

8. The wax machine buffer and vibration device as claimed in claim 7, wherein a distal end of the handle is locked by one of a group containing a buckling arm, and screws, and adhesive, so as to be fixed to a predetermined position of the casing.

9. The wax machine buffer and vibration device as claimed in claim 7, wherein the elastic element 3 includes soft rubbers, soft PVC or other similar flexible material.

10. A wax machine buffer and vibration device, wherein a motor 5 is installed in a casing 1 of a wax machine 10, an elastic material 3 encloses the casing 1; the motor 5, a weight eccentric block 51 and an eccentric shaft 52 are displace in a three dimensional space.