

CLAIMS

1. A massage device comprising:

a kneading massage member having a kneading massager at its front end;

a grabbing massage member having a grabbing massager at its front end, which is disposed on a base end of the kneading massage member,

said grabbing massage member being designed to perform a grabbing massage by moving the grabbing massager of the grabbing massage member close to and away from said kneading massager;

a rotation shaft which is driven to rotate about an axis pointing in a horizontal direction;

a kneading drive section for rocking said kneading massage member by taking out a rotative driving force of said rotation shaft to allow the kneading massage member to perform a kneading massage;

the rotation shaft which is driven to rotate about an axis pointing in a horizontal direction; and

a grabbing drive section for moving said grabbing massager close to and away from the kneading massager by utilizing a rotative driving force of said rotation shaft,

said grabbing drive section comprising:

a grabbing boss portion having a cam face formed on its outer peripheral surface, which is eccentrically attached to said rotation shaft;

an annular engagement portion engaged with the cam face of said grabbing boss portion, for taking out said rotative driving force;

a crank member having its base end connected to said annular engagement portion, and having its front end connected to said grabbing massager member, for transmitting the produced rotative driving force to said grabbing massager member,

in said grabbing massager member, the base end being pivotally supported on said kneading massager member for free rotation about a horizontal axis relative to the front end fitted with said grabbing massager,

the front end of said crank member being coupled to an intermediate part of said grabbing massager member for free rotation about an axis pointing in the horizontal direction;

said kneading drive section comprising:

a kneading boss portion which is attached to the rotation shaft fitted with said grabbing boss portion, and has, on its outer peripheral surface, an inclined cam face inclined with respect to an axis of said rotation shaft;

a kneading engagement portion engaged with the inclined cam face of said kneading boss portion, for taking out said

rotative driving force,

said kneading engagement portion being formed at the base end of said kneading massage member; and

a swing restraining mechanism for restraining said kneading massage member against co-rotation with the kneading boss portion being disposed on a lateral side of the base end of said kneading massage member.

2. A massage device comprising:

a kneading massage member having a kneading massager at its front end;

a grabbing massage member having a grabbing massager at its front end, which is disposed on a base end of the kneading massage member,

said grabbing massage member being designed to perform a grabbing massage by moving the grabbing massager of the grabbing massage member close to and away from said kneading massager;

a rotation shaft which is driven to rotate about an axis pointing in a horizontal direction;

a kneading drive section for rocking said kneading massage member by taking out a rotative driving force of said rotation shaft to allow the kneading massage member to perform a kneading massage,

the rotation shaft which is driven to rotate about the axis pointing in a horizontal direction; and

a grabbing drive section for moving said grabbing massager close to and away from the kneading massager by utilizing a rotative driving force of said rotation shaft,

wherein said grabbing drive section comprises:

a grabbing boss portion having a cam face formed on its outer peripheral surface, which is eccentrically attached to said rotation shaft;

an annular engagement portion engaged with the cam face of said grabbing boss portion, for taking out said rotative driving force;

a guide pin formed in said kneading massage member or said grabbing massage member;

a guide groove formed in said grabbing massage member or said kneading massage member, in which said guide pin is slidably moved; and

a coupling member having its base end connected relatively to said annular engagement portion, and having its front end connected for free rotation about a horizontal axis relatively to the base end of the grabbing massage member,

wherein said kneading drive section comprises:

a kneading boss portion which is attached to the rotation shaft fitted with said grabbing boss portion, and has, on its

outer peripheral surface, an inclined cam face inclined with respect to an axis of said rotation shaft; and

a kneading engagement portion engaged with the inclined cam face of said kneading boss portion, for taking out said rotative driving force,

wherein said kneading engagement portion is formed at the base end of said kneading massage member,

and wherein a swing restraining mechanism for restraining said kneading massage member against co-rotation with the kneading boss portion is disposed on a lateral side of the base end of said kneading massage member.

3. A massage device comprising:

a kneading massage member having a kneading massager at its front end;

a grabbing massage member having a grabbing massager at its front end, which is disposed on a base end of the kneading massage member,

said grabbing massage member being designed to perform a grabbing massage by moving the grabbing massager of the grabbing massage member close to and away from said kneading massager;

a rotation shaft which is driven to rotate about an axis pointing in a horizontal direction;

a kneading drive section for rocking said kneading massager member by taking out a rotative driving force of said rotation shaft to allow the kneading massager member to perform a kneading massage,

the rotation shaft which is driven to rotate about an axis pointing in a horizontal direction;

a grabbing drive section for moving said grabbing massager close to and away from the kneading massager by utilizing a rotative driving force of said rotation shaft,

wherein said grabbing drive section comprises:

a grabbing boss portion which is attached to said rotation shaft for unitary rotation, and has, on its outer peripheral surface, a cam face which is eccentric with respect to the axis of said rotation shaft; and

a crank member which has, at its base end side, an annular engagement portion engaged with the cam face of said grabbing boss portion so as to take out said rotative driving force, and transmits the produced rotative driving force toward a front end side thereof,

wherein said grabbing massager member has the base end side pivotally supported on the front end side of said crank member for free rotation about a horizontal axis, and said grabbing massager is disposed at the front end side of said grabbing massager member,

wherein an intermediate part of said grabbing massage member is coupled to said kneading massage member for free rotation about an axis pointing in the horizontal direction,

wherein said kneading drive section comprises:

a kneading boss portion which is attached to the rotation shaft fitted with said grabbing boss portion, and has, on its outer peripheral surface, an inclined cam face inclined with respect to the axis of said rotation shaft; and

a kneading engagement portion engaged with the inclined cam face of said kneading boss portion, for taking out said rotative driving force,

wherein said kneading engagement portion is formed at the base end of said kneading massage member, and the kneading massager is disposed at the front end of the kneading massage member,

and wherein the base end of said kneading massage member is formed with a protrusion extending in the opposite direction to said kneading massager with reference to said rotation shaft, and said grabbing massage member is coupled to a front end of said protrusion.

4. The massage device according to any one of claims 1 to 3,

wherein said kneading boss portion is eccentrically attached to said rotation shaft, and

wherein an eccentric direction of the grabbing boss portion with respect to said rotation shaft and an eccentric direction of the kneading boss portion with respect to said rotation shaft are circumferentially different from each other.

5. The massage device according to any one of claims 1 to 3,

wherein said kneading massager is located at each side of the front end of the kneading massage member in a width direction, and

wherein a grabbing massage is performed by moving the grabbing massager close to and away from the widthwise inner kneading massager.