

FOAMING METHOD AND APPARATUS THEREFOR

ABSTRACT

The present invention provides a small and inexpensive gas mixing/supplying device for introducing a gas into a high-viscosity material, by use of which a high-viscosity material can be directly supplied from a container such as a cartridge.

The present invention comprises:

a step of effecting a first suction stroke in which the piston 25 is moved in the cylinder 27 so as to generate a suction condition in the cylinder 27;

a step of supplying a high-viscosity material to the cylinder, using a suction force in the cylinder generated in said first suction stroke;

a step of stopping the piston after said first suction stroke;

a step of effecting a second suction stroke in which the piston is moved in the cylinder after the supply of the high-viscosity material;

a step of supplying a gas to the cylinder, using a suction force in the cylinder generated in the second suction stroke;

a step of effecting a pressurizing stroke in which the piston is moved in the cylinder after completion of the supply of the gas, to thereby pressurize the high-viscosity material and the gas; and

a step of effecting a discharge stroke in which the high-viscosity material and the gas are discharged into a conduit. Then, the high-viscosity material is foamed under atmospheric pressure.