

Abstract

In order to provide a liquid material discharge apparatus and method, which enable the moving speed of a plunger to be easily regulated, this liquid material discharge apparatus, which discharges a liquid material from a discharge opening (11) by moving the plunger forward at high speed, is provided with: a liquid chamber (50) to which a liquid material is supplied, said liquid chamber (50) being coupled to the discharge opening (11); the plunger, which has a piston (33) formed at the rear end, and a leading end that moves back and forth inside the liquid chamber (50); an elastic body (47) that applies an impelling force to the plunger; and a pressurizing chamber (49) in which the piston (33) is disposed, and to which pressurized gas is supplied. The liquid material discharge apparatus and liquid material discharge method that uses said apparatus are characterized in that the plunger is impelled in a backward direction by the elastic body (47), and the plunger is made to move forward by a propelling force applied to the piston (33) by pressurized gas supplied to the pressurizing chamber (49).

Abstract

In order to provide a liquid material discharge apparatus and method, which enable the moving speed of a plunger to be easily regulated, this liquid material discharge apparatus, which discharges a liquid material from a discharge opening (11) by moving the plunger forward at high speed, is provided with: a liquid chamber (50) to which a liquid material is supplied, said liquid chamber (50) being coupled to the discharge opening (11); the plunger, which has a piston (33) formed at the rear end, and a leading end that moves back and forth inside the liquid chamber (50); an elastic body (47) that applies an impelling force to the plunger; and a pressurizing chamber (49) in which the piston (33) is disposed, and to which pressurized gas is supplied. The liquid material discharge apparatus and liquid material discharge method that uses said apparatus are characterized in that the plunger is impelled in a backward direction by the elastic body (47), and the plunger is made to move forward by a propelling force applied to the piston (33) by pressurized gas supplied to the pressurizing chamber (49).