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(21) International Application Number: PCT/US00/00834 (22) International Filing Date: 12 January 2000 (12.01.00) (30) Priority Data: 99870004.1 13 January 1999 (13.01.99) EP (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): CANN, David, Victor [GB/GB]; Crescent Cottage, Stonehill Road, Ottershaw, Surrey KT16 0ER (GB). (74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).		(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: DOSING AND DELIVERING SYSTEM**(57) Abstract**

The present invention relates to a dispensing device (1) for a fluid (10), the dispensing device (1) comprising a reservoir (11), a shaft (12), a back seal (13), a damper (14), a piston (151) and a one-way valve (16), the back seal (13) sealing a first end of the reservoir and being displaceable along the shaft, the valve being on the second end of the reservoir, the piston being fixed to one end of the shaft, the piston being located between the valve and the damper, the damper being also fixed to the shaft, the damper being located between the piston and the back seal, whereby the piston has an opened position (151) and a closed position (152), the open position allowing fluid communication between the valve and the part of the reservoir between the piston and the back seal, the displacement of the piston between the opened and the closed position being induced by a displacement of the shaft along its own axis, the pressure in the area comprised between the valve and the piston reducing when the piston is moved from its closed position towards its opened position, the damper collapsing when the piston is moved from its closed position towards its opened position, the only fluid flow from the part of the reservoir situated between the damper and the back seal and the part of the reservoir situated on the other side of the damper being a connecting passage (140) situated in the damper (14) when the piston is moved from its opened position towards its closed position.

