

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

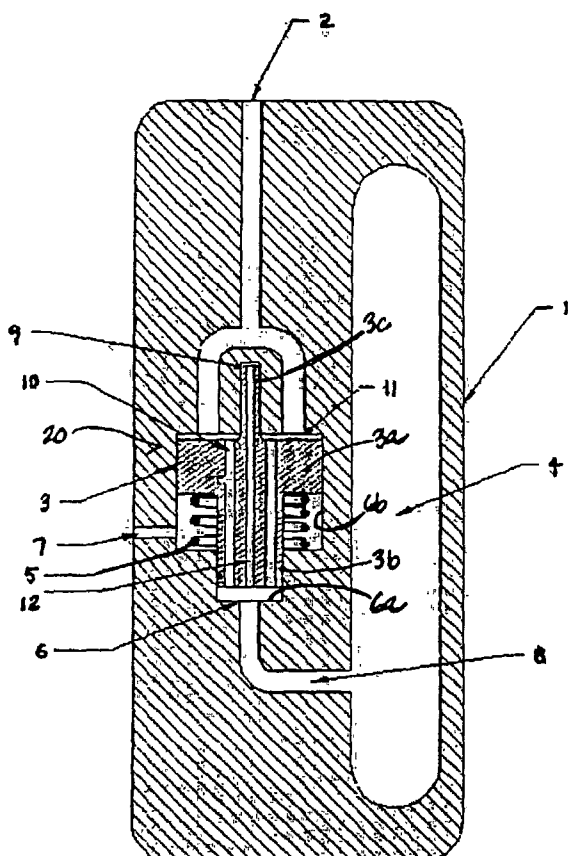
(10) International Publication Number
WO 2004/015277 A2

- (51) International Patent Classification⁷: **F15D**
- (21) International Application Number:
PCT/US2003/023053
- (22) International Filing Date: 24 July 2003 (24.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/402,464 9 August 2002 (09.08.2002) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, 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, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: REGULATED GAS SUPPLY SYSTEM



(57) Abstract: A regulated gas supply system (100) having a body (1) defining a pressurized gas reservoir (4) connected to a high-pressure regulator that regulates the high pressure gas from the gas reservoir (4) to disperse the gas at a desired pressure. The regulating assembly (20) includes a piston chamber (6) with a piston (3) slidably positioned in the piston chamber (6). A spring (5) is positioned between one side of the piston (3) and the piston chamber (6), with the piston (3) including a piston channel (10) to allow pressurized gas to flow through the piston (3). Pressure is developed on the piston (3) opposite the spring (5) that is proportional to the force of the spring (5), providing a balanced piston (3). The system (100) is miniature and self-contained to fit inside any number of small pneumatically operated devices.



Published:

— without international search report and to be republished
upon receipt of that report

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