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(21) International Application Number: PCT/US99/11256 (22) International Filing Date: 20 May 1999 (20.05.99) (30) Priority Data: 09/093,811 9 June 1998 (09.06.98) US (71) Applicant: PRECISION VALVE CORPORATION [US/US]; 700 Nepperhan Avenue, Yonkers, NY 10703 (US). (72) Inventor: BAYER, Christian; 19 Faraway Road, Armonk, NY 10504 (US). (74) Agents: STEIDL, Daniel, H. et al.; 85 Pondfield Road, Bronxville, NY 10708 (US).		(81) Designated States: AE, AU, BR, CA, CN, DE, ES, GB, ID, IN, JP, KR, MX, RU, SG, ZA, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>

(54) Title: AEROSOL POWDER VALVE**(57) Abstract**

An aerosol powder valve (10) has a valve housing (18), a valve body (21) with an upstanding valve stem (22), radial stem orifices (23), and an annular tightfitting gasket (25) with a central opening (48) forming the sole seal for the stem orifices. The valve stem is straight sided above and below the stem orifices and is characterized by the absence of a gasket receiving groove encircling the stem. The valve body has a plurality of narrow splines (40) spaced around its periphery, the top spline surfaces (41) being of minimal area relative to the spaces between the spline tops (44). The spline top surfaces abut the gasket when the valve is closed, and the minimal top spline areas prevent powder build up to adversely affect full sealing of the valve. The gasket sealing surface surrounding the valve stem has a lubricant, i.e., silicone, baked thereon. The stem orifices are positioned vertically over circumferential spaces between splines.

