

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



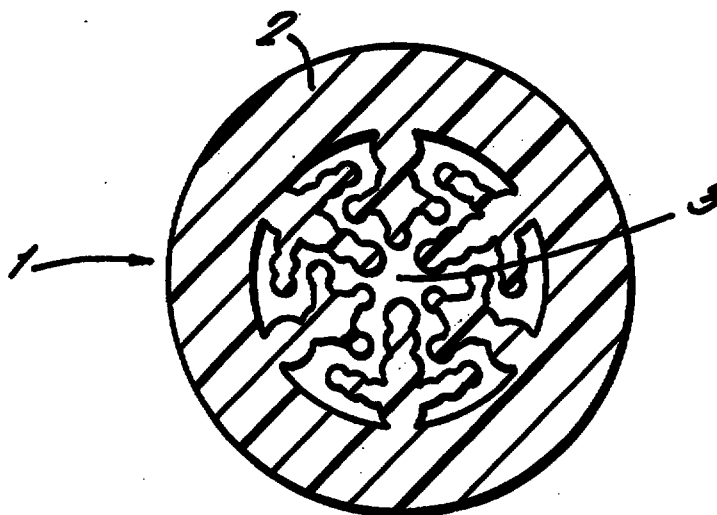
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B05B 5/025, G06K 15/00	A1	(11) International Publication Number: WO 96/07484 (43) International Publication Date: 14 March 1996 (14.03.96)
(21) International Application Number: PCT/GB95/02108 (22) International Filing Date: 6 September 1995 (06.09.95) (30) Priority Data: 9418039.5 7 September 1994 (07.09.94) GB (71) Applicants (for all designated States except US): RECKITT & COLMAN PRODUCTS LIMITED [GB/GB]; One Burlington Lane, London W4 2RW (GB). IMPERIAL CHEMICAL INDUSTRIES PLC [GB/GB]; Imperial Chemical House, Millbank, London, SW1P 3JF (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): CORNELIUS, Gay, Joyce [GB/GB]; 57 The Wolds, Cottingham, North Humberside HU16 5LQ (GB). NOAKES, Timothy, James [GB/GB]; The Hollies, Llyn-y-Pandy Lane, Pantymwyn, Nr. Mold, Clwyd CH7 5JF (GB). JEFFERIES, Andrew [GB/GB]; The hollies, Llyn-y-Pandy Lane, Pantymwyn, Nr. Mold, Clwyd CH7 5JF (GB). GREEN, Michael, Leslie [GB/GB]; 2 Tal-Cochlon, Village Road, Nannerch, Clwyd CH7 5RE (GB). PRENDERGAST, Maurice, Joseph [GB/GB]; 11 Bellingham Drive, Runcorn, Cheshire WA7 4XN (GB).	(74) Agent: BOULT WADE TENNANT; 27, Fumival Street, London EC4A 1PQ (GB). (81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. <i>RTMP copy</i>	

(54) Title: **ELECTROSTATIC SPRAYING DEVICE**

(57) Abstract

An electrostatic spraying device for spraying liquids comprises a hollow capillary structure (13) having a convoluted inner surface one end of which contacts a reservoir (12) of an electrostatically sprayable liquid preferably having a viscosity of from 1 to 20×10^{-6} m²/s and a volume resistivity of from 2.5×10^6 to 5×10^8 ohm cm, the other end of which terminates in an atomisation tip (14), and means (17) for applying high voltage to the liquid in order to cause the liquid at the atomisation tip (14) to break up into a plurality of electrostatically charged droplets. Cartridges for use in the electrostatic spraying device are also described.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgyzstan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TG	Togo
CZ	Czech Republic	MC	Monaco	TJ	Tajikistan
DE	Germany	MD	Republic of Moldova	TT	Trinidad and Tobago
DK	Denmark	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	US	United States of America
FI	Finland	MN	Mongolia	UZ	Uzbekistan
FR	France			VN	Viet Nam
GA	Gabon				

9700938-5