

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 May 2009 (14.05.2009)

PCT

(10) International Publication Number
WO 2009/060240 A1

(51) International Patent Classification:
A62C 31/05 (2006.01)

James Oliver [GB/GB]; 30 Essex Road, Huntingdon Cam-
bridgeshire PE29 1SE (GB).

(21) International Application Number:
PCT/GB2008/051040

(74) Agent: MURGITROYD & COMPANY; Scotland
House, 165-169 Scotland Street, Glasgow G5 8PL (GB).

(22) International Filing Date:
7 November 2008 (07.11.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0721995.9 9 November 2007 (09.11.2007) GB
0805791.1 31 March 2008 (31.03.2008) GB
0806182.2 4 April 2008 (04.04.2008) GB

(71) Applicant (for all designated States except US): PUR-
SUIT DYNAMICS PLC [GB/GB]; Shackleton House,
Kingfisher Way, Hinchingsbrooke Business Park, Hunting-
don Cambridgeshire PE29 6HB (GB).

(72) Inventors; and

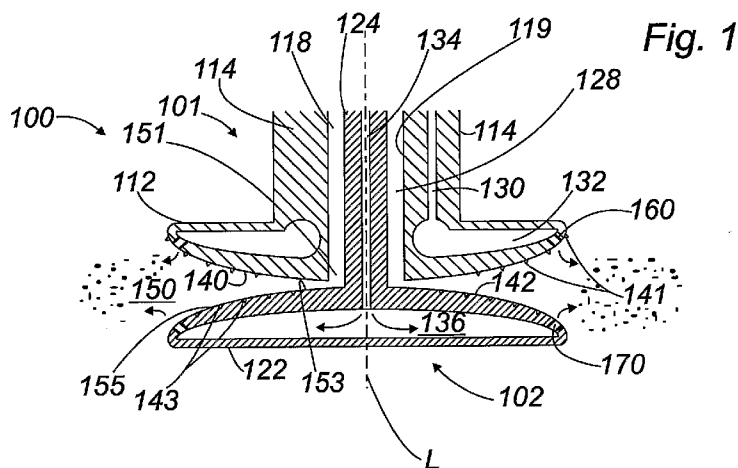
(75) Inventors/Applicants (for US only): FENTON, Marcus
Brian Mayhall [GB/GB]; 2 Bushmead Road, Eaton So-
con, St Neots Cambridgeshire PE19 8BP (GB). FRENCH,

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,
MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AN IMPROVED MIST GENERATING APPARATUS



(57) Abstract: A mist generating apparatus (100) is provided. The apparatus (100) has a longitudinal axis (L) and comprises first and second opposing surfaces (140, 142) which define a transport fluid nozzle (150) between them. The apparatus (100) also has a working fluid passage (132) having an inlet (130) connectable to a supply of working fluid, and an outlet (160) on one of the first and second surfaces (140, 142). The working fluid outlet (160) communicates with the transport fluid nozzle (150). The transport fluid nozzle (150) has a nozzle inlet (151) connectable to a supply of transport fluid, a nozzle outlet (155), and a throat portion (153) intermediate the nozzle inlet (151) and nozzle outlet (155). The nozzle throat (153) has a cross sectional area which is less than that of either the nozzle inlet (151) or the nozzle outlet (155). The transport fluid nozzle (150) projects radially from the longitudinal axis (L) such that the nozzle (150) defines a rotational angle of at least 5 degrees about the longitudinal axis (L). A method of generating a mist using the apparatus is also provided.

WO 2009/060240 A1



Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*