9803620-5

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61M 15/00, B65D 83/04 — A2

(11) International Publication Number: WO 97/25086

(43) International Publication Date: 17 July 1997 (17.07.97)

(21) International Application Number: PCT/GB96/03141

(22) International Filing Date: 19 December 1996 (19.12.96)

(30) Priority Data:
9600044.3 3 January 1996 (03.01.96) GB
9625134.3 3 December 1996 (03.12.96) GB

(71) Applicant *(for all designated States except US)*: GLAXO GROUP LIMITED [GB/GB]; Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: ANDERSON, Gregor, John, McLennan [GB/GB]; Glaxo Wellcome plc, Park Road, Ware, Hertfordshire SG12 0DP (GB). WALKER, Richard, Ian [GB/GB]; Glaxo Wellcome plc, Park Road, Ware, Hertfordshire SG12 0DP (GB). DAVIES, Michael, Birsha [GB/GB]; Glaxo Wellcome plc, Park Road, Ware, Hertfordshire SG12 0DP (GB). FARR, Philip, William [GB/GB]; Glaxo Wellcome plc, Park Road, Ware, Hertfordshire SG12 0DP (GB).

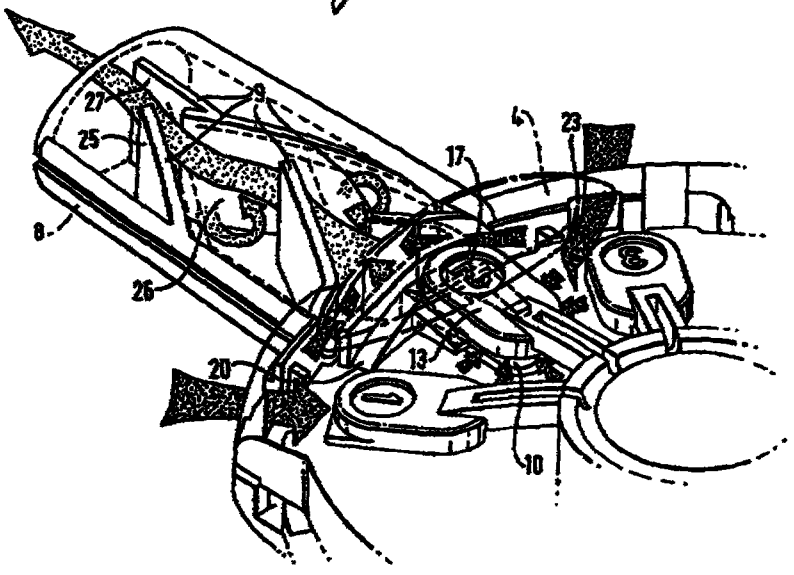
(74) Agent: TEUTEN, Andrew, J.; Glaxo Wellcome plc, Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, 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).

Published

Without international search report and to be republished upon receipt of that report.

(54) Title: INHALATION DEVICE



(57) Abstract

A powder inhalation device comprising a housing containing a pharmacologically active compound, a conduit (8) with an outlet extending into the housing through which a user can inhale to create an airflow through the conduit, a dosing unit (6, 7) for delivering a dose of the compound to the conduit and baffles (9) arranged within the said conduit to aid disintegration of powder agglomerates entrained in said airflow. The baffles (9) comprise a plurality of staggered plates extending into the conduit from opposite sides of the conduit at an angle of less than 90° to the sides of the conduit and are inclined towards the outlet to create a plurality of constrictions within the conduit and a plurality of changes in the direction of the said airflow through the conduit.