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(21) International Application Number: PCT/GB99/04041 (22) International Filing Date: 1 December 1999 (01.12.99) (30) Priority Data: 9826284.3 1 December 1998 (01.12.98) GB (71) Applicant (for all designated States except US): RHONE-POULENC RORER LIMITED [GB/GB]; RPR House, 50 Kings Hill Avenue, Kings Hill, West Malling, Kent ME19 4AH (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): VEMURI, N., Murti [GB/GB]; Rhône-Poulenc Rorer Limited, London Road, Holmes Chapel, Cheshire CW4 8BE (GB). BROWN, An- drew, B. [GB/GB]; Rhône-Poulenc Rorer Limited, Lon- don Road, Holmes Chapel, Cheshire CW4 8BE (GB). AUTHELIN, Jean-Rene [FR/FR]; Rhône-Poulenc Rorer S.A., 13, quai Jules Guesde, Boîte postale 14, F-94403 Cedex Vitry-Sur-Seine (FR). HOSEK, Patrick [FR/FR]; Rhône-Poulenc Rorer S.A., 13, quai Jules Guesde, Boîte postale 14, F-94403 Cedex Vitry-Sur-Seine (FR).		(74) Agent: CAFFIN, Lee; Rhône-Poulenc Rorer Limited, Patent Dept., London Road, Holmes Chapel, Cheshire CW4 8BE (GB). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: MILLING PROCESS FOR THE PRODUCTION OF FINELY MILLED MEDICINAL SUBSTANCES (57) Abstract The invention is an improved method of generating fine medicament powders suitable for inhalation. A fluid energy mill is used with conventional milling fluids such as air or nitrogen. The milling fluid is treated to have a controlled relative humidity of between 30 % and 70 %. This produces a fine medicament powder with a median particle size below 10 micrometer but with little or no amorphous content generated during milling. Scale formation in the mill chamber is also greatly reduced.		