



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification <sup>7</sup> :</b><br><br><b>C01B 31/08</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 00/00429</b><br><br><b>(43) International Publication Date:</b> 6 January 2000 (06.01.00)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>(21) International Application Number:</b> PCT/IL99/00356<br><br><b>(22) International Filing Date:</b> 28 June 1999 (28.06.99)<br><br><b>(30) Priority Data:</b><br>125137                      29 June 1998 (29.06.98)                      IL<br><br><b>(71) Applicant (for all designated States except US):</b> KATZ, Raul [IL/IL]; Derech Yatir 61, 85025 Meitar (IL).<br><br><b>(71)(72) Applicant and Inventor:</b> BERMAN, Yaakov [IL/IL]; P.O. Box 8215, 68021 Tel-Aviv (IL).<br><br><b>(74) Agents:</b> LUZZATTO, Kfir et al.; Luzzatto & Luzzatto, P.O. Box 5352, 84152 Beer-Sheva (IL).                                                                                                                                                                                                                                     |           | <b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, 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).<br><br><b>Published</b><br><i>With international search report.<br/>         Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| <b>(54) Title:</b> A PROCESS FOR PREPARING ACTIVATED CARBON FROM URBAN WASTE<br><br><b>(57) Abstract</b><br><br><p>A process for the preparation of active carbon from urban waste. The waste is first stored to remove foreign materials and the size of the waste particles is reduced. The waste is dried under anaerobic conditions at a temperature range of 100 °C – 150 °C and partially pyrolysed at a temperature of about 140 °C – 400 °C. The obtained product is granulated and the granules are carbonized under anaerobic conditions at a temperature of about 120 °C – 500 °C. The carbonized granules are activated in the presence of steam and combustion gases at 750 °C – 900 °C. Finally, the activated granules are purified by rinsing in an aqueous HCl solution, and subsequently drying the activated carbon.</p> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |