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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 November 2000 (30.11.2000)

PCT

(10) International Publication Number
WO 00/72384 A1

(51) International Patent Classification[7]: H01L 31/00

(21) International Application Number: PCT/US00/11119

(22) International Filing Date: 25 April 2000 (25.04.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/304,979 4 May 1999 (04.05.1999) US

(71) Applicant: NEOKISMET L.L.C. [US/US]; Suite 1350, 456 Montgomery Street, San Francisco, CA 94104 (US).

(72) Inventors: ZUPPERO, Anthony, C.; 6854 East Sunnyside Road, Idaho Falls, ID 83406 (US). GIDWANI, Jawahar, M.; 2335 Leavenworth, San Francisco, CA 94133 (US).

(74) Agents: PARK, Eunhee et al.; Baker & McKenzie, 805 Third Avenue, New York, NY 10022 (US).

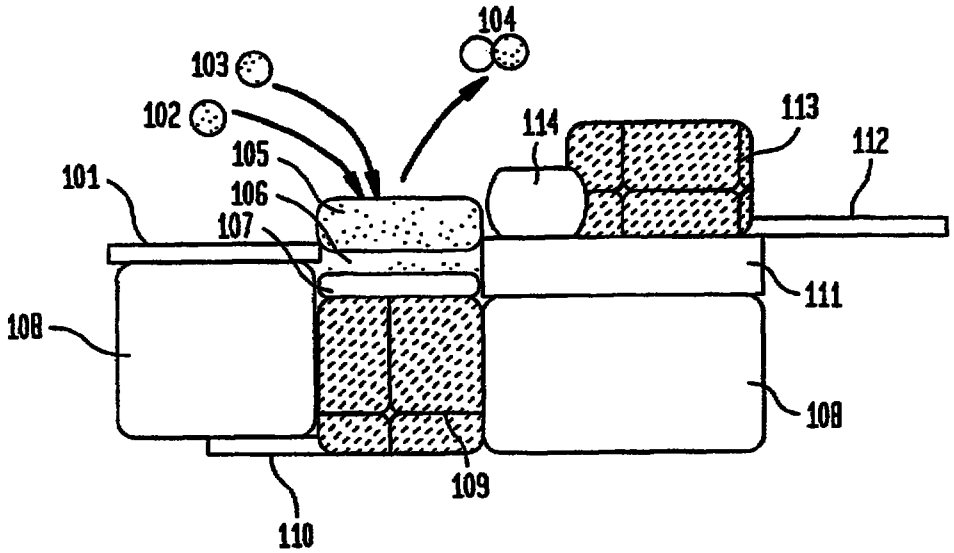
(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: 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:
— *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.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PRE-EQUILIBRIUM CHEMICAL REACTION ENERGY CONVERTER



(57) Abstract: The use of newly discovered chemical reaction products (102, 103, 104), created when reactants combine to form products on the surface of a catalyst (105), to generate electricity, beams of radiation, or mechanical motion. The invention also provides methods to convert the products into electricity or motion.

WO 00/72384 A1