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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/079278 A3

(51) International Patent Classification[7]: G01N 11/00

(21) International Application Number:
PCT/US2005/004262

(22) International Filing Date: 10 February 2005 (10.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/779,424 13 February 2004 (13.02.2004) US

(71) Applicant *(for all designated States except US)*: **CHEVRON ORONITE COMPANY LLC** [US/US]; 6001 Bollinger Canyon Road - 3rd Floor, San Ramon, CA 94583 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **WOLLENBERG, Robert, H.** [US/US]; 31 Las Vegas Road, Orinda, CA 94563 (US).

(74) Agents: **CAROLI, Claude, J.** et al.; Chevrontexaco Corporation, Law Department, Post Office Box 6006, San Ramon, CA 94583-0806 (US).

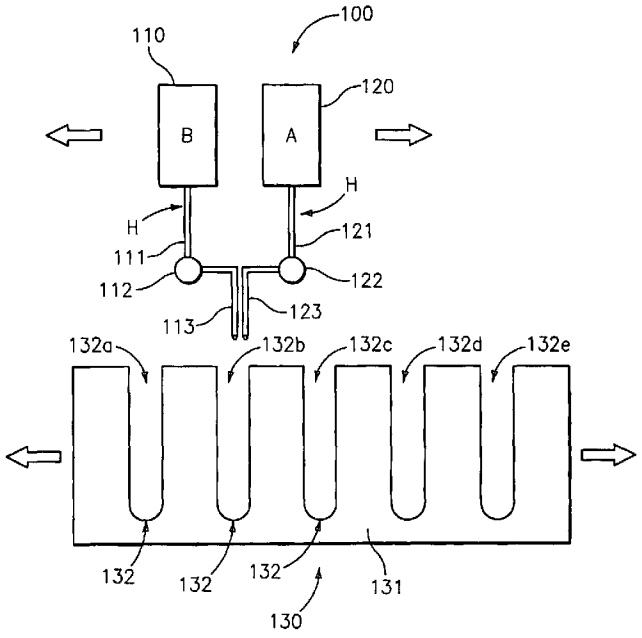
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

[Continued on next page]

(54) Title: HIGH THROUGHPUT SCREENING METHODS FOR LUBRICATING OIL COMPOSITIONS



(57) Abstract: Method for determining dispersancy performance for a plurality of fluid samples of different compositions is provided. Each sample includes one or more base oils of lubricating viscosity (110) and one or more lubricating oil additives (120) and a predetermined amount of an oil-insoluble material. The methods can advantageously be optimized using combinatorial chemistry, in which a database of combinations of lubricating oil compositions are generated. As market conditions vary and/or product requirements or customer specifications change, conditions suitable for forming desired products can be identified with little or no downtime.

WO 2005/079278 A3

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
22 December 2005

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.