

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/042765 A2

(51) International Patent Classification⁷: **C12Q**

(21) International Application Number:
PCT/US2004/036071

(22) International Filing Date: 27 October 2004 (27.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/699,509 31 October 2003 (31.10.2003) 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) Inventors; and

(75) Inventors/Applicants (for US only): **WOLLENBERG,**

Robert, H. [US/US]; 31 Las Vegas Road, Orinda, CA
94563 (US). **BALK, Thomas, J.** [US/US]; 767 Castro
Street, San Francisco, CA 94583 (US).

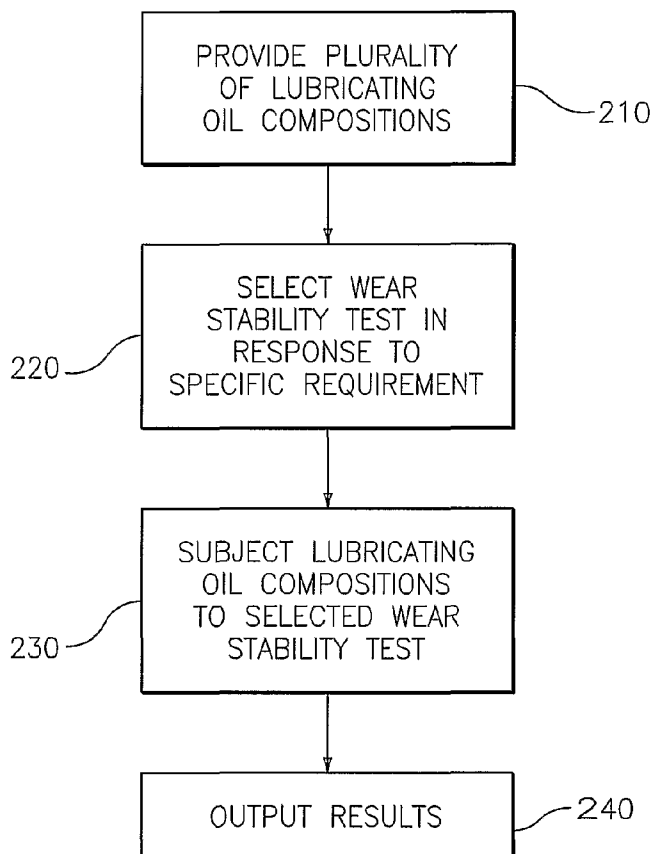
(74) Agents: **FOLEY, Joseph, P.** et al.; ChevronTexaco Corpo-
ration, Law Department, P.O. Box 6006, San Ramon, CA
94583-0806 (US).

(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, 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,

[Continued on next page]

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



(57) Abstract: A method for determining storage stability for a plurality of fluid lubricant samples of different lubricating oil compositions is provided. Each sample includes a combination of one or more base oils and one or more lubricating oil additives. The methods can advantageously be optimized using combinatorial chemistry, in which a database of combinations of lubricating oil additives or lubricating oil compositions containing such additives is 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 2005/042765 A2



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, IT, 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).

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.

Published:

- *without international search report and to be republished upon receipt of that report*