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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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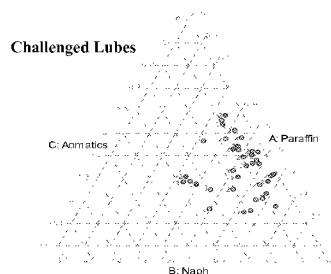
(54) **Title:** CRUDE OIL SELECTION FOR THE PRODUCTION OF LUBRICANT BASE STOCKS

FIG. 1a

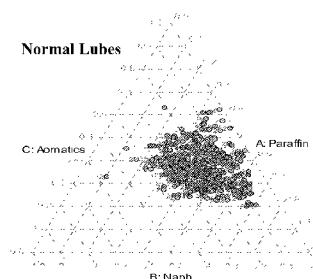


FIG. 1b

(57) **Abstract:** Methods are provided for characterizing crude oils, crude fractions, or other potential feedstocks for forming lubricating base oils in order to determine the suitability of a feedstock for lubricating base stocks production. One type of characterization is to determine the isoparaffin, naphthene, and/or aromatics contents of the distillate portion of a feedstock. A second characterization is to determine the viscosity index of a distillate portion of a feedstock after dewaxing the distillate portion to a target pour point.