

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 May 2002 (10.05.2002)

PCT

(10) International Publication Number
WO 02/36715 A1

- (51) International Patent Classification⁷: **C10G 9/12**, 9/16
- (21) International Application Number: PCT/US01/21230
- (22) International Filing Date: 5 July 2001 (05.07.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/703,108 31 October 2000 (31.10.2000) US
- (71) Applicant: **ONDEO NALCO ENERGY SERVICES, L.P.** [US/US]; 7701 Highway 90-A, Sugarland, TX 77478 (US).
- (72) Inventors: **MCCLAIN, Robert, D.**; 14035 Imperial Canyon Lane, Sugarland, TX 77478 (US). **PATEL, Natu, R.**; 2758 Manila Lane, Houston, TX 77043 (US). **GLATH, Raymond, M.**; 1806 Copperwood Lane, Richmond, TX 77469 (US).
- (74) Agent: **KEEFER, Timothy, J.**; Wildman, Harrold, Allen & Dixon, 225 West Wacker Drive, Chicago, IL 60606 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MZ, 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, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- 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: REDUCING UNDESIRE POLYMERIZATION IN HYDROCARBON CRACKING PROCESSES

(57) Abstract: This invention is a method to inhibit the polymerization of carbonyl compounds in a basic wash unit operation in a hydrocarbon cracking process, wherein a compound selected from the group consisting of alpha-amino acids and esters thereof and amides thereof and salts thereof and mixtures thereof or Mercaptoacetic acid and alkyl esters thereof, is added either to a stream comprising a carbonyl compound or to the basic wash unit operation; wherein the compound is selected such that it remains water-soluble and base-soluble and does not flocculate in the stream or in the basic wash unit operation; and wherein the stream is contacted with the compound either before or at the same time as the stream enters the basic wash unit operation; or wherein the compound is added to the basic wash unit operation before or while the stream enters the basic wash unit operation.