



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C02F 5/10, C09K 3/32		A1	(11) International Publication Number: WO 00/44677
			(43) International Publication Date: 3 August 2000 (03.08.00)
(21) International Application Number: PCT/US00/01945 (22) International Filing Date: 26 January 2000 (26.01.00) (30) Priority Data: 09/238,850 28 January 1999 (28.01.99) US (71) Applicant (for all designated States except US): ASHLAND INC. [US/US]; P.O. Box 2219, Columbus, OH 43216 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): KMEC, Pavol [US/US]; 95 Falcon Ridge, Hamburg, NJ 07419 (US). EMERICH, Dwight, E. [US/US]; 109 Comly Road, Lincoln Park, NJ 07035 (US). (74) Agents: HEDDEN, David, L.; Ashland Inc., P.O. Box 2219, Columbus, OH 43216 (US) et al.		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, 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.	
 *G00001*			
(54) Title: SCALE AND/OR CORROSION INHIBITING COMPOSITION			
(57) Abstract			
This invention relates to scale and/or corrosion inhibiting compositions for aqueous systems comprising (a) polyaspartic acid, and (b) a water soluble phosphonated oligomer. The compositions are effective scale inhibitors and corrosion inhibitors, but are also advantageous from an environmental standpoint because they are non-toxic, contain no heavy metals, and have little phosphorus. They also have significant calcium/hardness tolerance and are chlorine/bromine stable.			
 *162162*			