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(21) International Application Number: PCT/US99/04245 (22) International Filing Date: 25 February 1999 (25.02.99) (30) Priority Data: 09/054,005 2 April 1998 (02.04.98) US (71) Applicant: WITCO CORPORATION [US/US]; One American Lane, Greenwich, CT 06831 (US). (72) Inventors: MUIR, Ronald, J.; 4 Invermage Drive, West Hill, Ontario M1C 3M4 (CA). ELIADES, Theo, I.; 1452 Military Trail, Scarborough, Ontario M1C 1A9 (CA). (74) Agent: WELCH, Edward, K., II; One American Lane, Greenwich, CT 06831 (US).		(81) Designated States: BR, CA, JP, KR, MX, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: OVERBASED MAGNESIUM DEPOSIT CONTROL ADDITIVE FOR RESIDUAL FUEL OILS (57) Abstract An overbased magnesium composition deposit control additive for residual fuel oils and turbine fuels is an overbased magnesium sulfonate, carboxylate or phanate or mixtures thereof containing at least 14 % and upwards to about 18 % by weight of magnesium and containing a succinic anhydride and lower carboxylic acid co-promoter reaction product. The additive when added to fuel oils, such as residual fuel oils containing high asphaltenes, reduces, if not eliminates, magnesium/asphaltene deposits or sediment and the consequential plugging of filters. The additive also reduces, if not eliminates, vanadium caused corrosion in the turbine. The invention is also the process for preparing the overbased composition or deposit control additive, wherein the overbasing reaction incorporates the combination of a lower carboxylic acid, preferably acetic acid and a succinic anhydride, preferably dodecenyl succinic anhydride (DDSA), as the co-promoter.		