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(21) International Application Number: PCT/EP99/06172 (22) International Filing Date: 23 August 1999 (23.08.99) (30) Priority Data: 98810877.5 3 September 1998 (03.09.98) EP (71) Applicant (for all designated States except US): CIBA SPECIALTY CHEMICALS HOLDING INC. [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH). (72) Inventors; and (75) Inventors/Applicants (for US only): ROTH, Michael [DE/DE]; Falltorweg 5, D-64686 Lautertal (DE). PFAENDNER, Rudolf [DE/DE]; Sackgasse 3, D-64668 Rimbach (DE). NESVADBA, Peter [CH/CH]; Route des Pralettes 83A, CH-1723 Marly (CH). (74) Common Representative: CIBA SPECIALTY CHEMICALS HOLDING INC.; Patentabteilung, Klybeckstrasse 141, CH-4057 Basel (CH).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, 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 <i>With international search report.</i>
(54) Title: GRAFTING OF ETHYLENICALLY UNSATURATED MONOMERS ONTO POLYMERS (57) Abstract The present invention relates to a process for the preparation of a grafted polymer wherein in a first step A) a stable nitroxyl radical is grafted onto a polymer, which step comprises heating a polymer and a nitroxyl-ether containing a group (=NO-X), wherein X is selected such, that cleavage of the O-X bond occurs and a radical X. is formed at about the melting temperature of the polymer; and in a second step B) the grafted polymer of step A) is heated in the presence of an ethylenically unsaturated monomer or oligomer to a temperature at which cleavage of the nitroxyl-polymer bond occurs and polymerization of the ethylenically unsaturated monomer or oligomer is initiated at the polymer radical; maintaining said temperature for further polymerization and afterwards cooling down the mixture to a temperature below 60 °C. Further subjects are grafted thermoplastic polymers prepared by said process, the intermediate polymeric radical initiator, the use of the polymeric radical initiator and the use of NO-ethers for grafting thermoplastic polymers.		