



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08G 59/14	A1	(11) International Publication Number: WO 98/49214 (43) International Publication Date: 5 November 1998 (05.11.98)
(21) International Application Number: PCT/US98/07610 (22) International Filing Date: 15 April 1998 (15.04.98) (30) Priority Data: 9708510.4 25 April 1997 (25.04.97) GB (71) Applicant (for all designated States except US): THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Mid- land, MI 48674 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GAN, Joseph [FR/FR]; 100, route du Polygone, F-67100 Strasbourg (FR). KOENIG, Raymond, A. [FR/FR]; 2, rue du Hohwald, F-67550 Vendenheim (FR). EVERETT, John, P. [GB/DE]; Panoramastrasse 30, D-77815 Buehl (DE). (74) Agent: PRIETO, Joe, R.; Patent Dept., P.O. Box 1967, Midland, MI 48641-1967 (US).		(81) Designated States: BR, CN, JP, KR, SG, US, 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: NITROGEN-CONTAINING EPOXY RESINS FOR PHOTOCURABLE COATING APPLICATIONS (57) Abstract Novel nitrogen-containing epoxy resin compositions suitable for photoimageable coating applications such as solder mask coating formulations are prepared by advancing an epoxy resin such as epoxy novolac resins with a nitrogen-containing compound such as diphenylmethane diisocyanate; then acrylating the advanced epoxy resin with an acrylation material such as acrylic acid, and then esterifying the advanced acrylated epoxy resin such as a novolac acrylate with an anhydride such as methylhexahydrophthalic anhydride.		