

2902041-4



for net

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C03C 17/00, 17/28, 17/30, B32B 17/06		A1	(11) International Publication Number: WO 99/12859
			(43) International Publication Date: 18 March 1999 (18.03.99)
(21) International Application Number: PCT/US98/18116		(81) Designated States: AU, BR, CA, CN, CZ, HU, ID, IL, JP, KR, MX, NZ, PL, RU, SG, TR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: 1 September 1998 (01.09.98)			
(30) Priority Data: 60/058,273 8 September 1997 (08.09.97) US		Published With international search report.	
(71) Applicant: ELF ATOCHEM NORTH AMERICA, INC. [US/US]; 2000 Market Street, Philadelphia, PA 19103-3222 (US).			
(72) Inventors: PAPANU, Victor, Dennis; 197 Sandy Knoll Drive, Doylestown, PA 18901 (US). CARSON, Stephen, William; 1620 Russell Drive, Downingtown, PA 19335 (US). SCHWARTZ, Scott, Jay; 58 LaRue Lane, East Brunswick, NJ 08816 (US).			
(74) Agents: MARCUS, Stanley, A. et al.; Elf Atochem North America, Inc., 2000 Market Street, Philadelphia, PA 19103-3222 (US).			

(54) Title: STRENGTHENING FLAT GLASS BY EDGE COATING

(57) Abstract

A method is described for strengthening or restoring strength to a flat brittle oxide substrate (12) which includes the steps of coating the edges of the brittle oxide substrate (12) with a strengthening composition without coating a significant portion of the major flat surfaces of the substrate (12). The strengthened brittle oxide substrate (12), such as glass, and a window containing as a window pane the edge strengthened glass (12) are also provided.

