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| <b>(51) International Patent Classification <sup>6</sup>:</b><br><b>C08J 3/00, C08K 3/20, C08L 75/00,<br/>B32B 27/00, 27/40, C08F 8/30, 283/04</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 97/45475</b><br><b>(43) International Publication Date:</b> 4 December 1997 (04.12.97)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>(21) International Application Number:</b> PCT/US97/06251<br><b>(22) International Filing Date:</b> 7 April 1997 (07.04.97)<br><b>(30) Priority Data:</b><br>656,939 30 May 1996 (30.05.96) US<br><b>(71) Applicant:</b> ARCO CHEMICAL TECHNOLOGY, L.P.<br>[US/US]; Suite 238, Two Greenville Crossing, 4001<br>Kennett Pike, Greenville, DE 19807 (US).<br><b>(72) Inventors:</b> BLACKWELL, Ronald, S.; 118 Concord Street,<br>Waterbury, CT 06710-1223 (US). CHEN, Augustin, T.; 893<br>Farmington Drive, Cheshire, CT 06410 (US). O'CONNOR,<br>James, M.; 107 Beckett Avenue, Branford, CT 06405 (US).<br><b>(74) Agents:</b> CARLSON, Dale, Lynn et al.; Wiggin & Dana, One<br>Century Tower, New Haven, CT 06508-1832 (US). |           | <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR,<br>BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE,<br>HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,<br>LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,<br>PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA,<br>UG, UZ, VN, YU, Eurasian patent (AM, AZ, BY, KG, KZ,<br>MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK,<br>ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI<br>patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,<br>SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |
| <b>(54) Title:</b> TWO-COMPONENT WATERBORNE POLYURETHANE COATING<br><br><b>(57) Abstract</b><br><br>Disclosed is a two-component aqueous polyurethane coating composition that is curable at 25 degrees Centigrade into a coating exhibiting enhanced hardness, gloss, and solvent resistance. The coating composition comprises a hydroxyl terminated, water dispersible polymer resin and a polyisocyanate which is dispersible in an aqueous polymer resin dispersion, and has an average functionality of at least 2.0.                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |