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| <b>(51) International Patent Classification <sup>7</sup> :</b><br><b>C08G 77/06, C08F 283/12, C08L 51/08, 25/12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 00/34359</b><br><b>(43) International Publication Date:</b> 15 June 2000 (15.06.00)                                                                  |
| <b>(21) International Application Number:</b> PCT/US99/22870<br><b>(22) International Filing Date:</b> 4 October 1999 (04.10.99)<br><br><b>(30) Priority Data:</b><br>09/207,073      7 December 1998 (07.12.98)      US<br><br><b>(71) Applicant:</b> GENERAL ELECTRIC COMPANY [US/US]; 1 River Road, Schenectady, NY 12345 (US).<br><b>(72) Inventors:</b> CRAIG, Daniel; Horace; 1516 Valencia Road, Schenectady, NY 12309 (US). HU, Rong; 18 Teresa Street, Latham, NY 12110 (US).<br><b>(74) Agents:</b> WINTER, Catherine, J. et al.; General Electric Company, 3135 Easton Turnpike W3C, Fairfield, CT 06431 (US). |           | <b>(81) Designated States:</b> CN, JP, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).<br><br><b>Published</b><br><i>With international search report.</i> |
| <b>(54) Title:</b> EMULSION POLYMERIZED SILICONE RUBBER-BASED IMPACT MODIFIERS, METHOD FOR MAKING, AND BLENDS THEREOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                          |
| <b>(57) Abstract</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                          |
| <p>A method is provided for making emulsion polymerized silicone rubber having an average particle size of from about 400 nm to 2 microns and grafts thereof. Thermoplastic blends having improved weatherability and impact strength are also provided based on the use of a thermoplastic organic polymer and a graft of such emulsion polymerized silicone rubber as an impact modifier.</p>                                                                                                                                                                                                                           |           |                                                                                                                                                                                                          |