



(51) International Patent Classification:
C08F 232/00 (2006.01) *H01L 51/00* (2006.01)

(21) International Application Number:
PCT/EP2011/004281

(22) International Filing Date:
26 August 2011 (26.08.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10009119.8 2 September 2010 (02.09.2010) EP
61/379,795 3 September 2010 (03.09.2010) US

(71) Applicants (for all designated States except US): **MERCK PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE). **PROMERUS LLC** [US/US]; 9921 Brecksville Road, Brecksville, OH 44141 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MUELLER, David Christoph** [DE/DE]; Fichardstrasse 28, 60322 Frankfurt am Main (DE). **MISKIEWICZ, Pawel** [PL/US]; 700 Huron Avenue, Cambridge, MA 02138 (US). **CULL, Toby** [GB/GB]; Crinan, Andover Rd., Newbury RG20 0LS (GB). **WIERZCHOWIEC, Piotr** [PL/GB]; 32, St Edmunds Road, 9 Regents Court, Southampton SO16 4RG (GB). **BELL, Andrew** [GB/US]; 1511 Lewis Drive, Lakewood, OH 44107 (US). **ELCE, Edmund** [CA/US]; 2226 Northland, Lakewood, OH 44107 (US). **RHODES, Larry, F.** [US/US]; 3036 Vincent Road, Silver Lake, OH 44224 (US). **FUJITA, Kazuyoshi** [JP/JP]; 5-8 Higashi-Shinagawa, 2-chome Shinagawa-ku, Tokyo 140-0002

(JP). **NG, Hendra** [US/US]; 345B, East Legend Court, Highland Heights, OH 44143 (US). **KANDANARACHCHI, Pramod** [CA/US]; 7205 W. Cross Creek Trail, Brecksville, OH 44141 (US). **SMITH, Steven** [US/US]; 1025 Valley Bluff Road, Apt. 13, Perrysburg, OH 43551 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: INTERLAYER FOR ELECTRONIC DEVICES

(57) Abstract: The invention relates to the use of polycycloolefins in electronic devices and more specifically to the use of such polycycloolefins as interlayers applied to insulating layers used in electronic devices, the electronic devices that encompass such polycycloolefin interlayers and processes for preparing such polycycloolefin interlayers and electronic devices.

