

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



G00002

(43) International Publication Date
8 August 2002 (08.08.2002)

PCT

(10) International Publication Number
WO 02/061764 A1

(51) International Patent Classification⁷: **H01B 1/04**, 1/02

(21) International Application Number: PCT/US02/01573

(22) International Filing Date: 17 January 2002 (17.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/774,466 30 January 2001 (30.01.2001) US

(71) Applicant (for all designated States except US): **HONEYWELL INTERNATIONAL INC.** [US/US]; PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NGUYEN, My** [US/US]; HONEYWELL INTERNATIONAL INC., PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US). **GRUNDY, James** [US/US]; HONEYWELL INTERNATIONAL INC., PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US). **EDWARDS, Carl** [US/US]; HONEYWELL INTERNATIONAL INC., PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US).

(74) Agent: **THOMPSON, Sandra**; Rutan & Tucker, LLP, 611 Anton Blvd., 14th Floor, Costa Mesa, CA 92626 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), DE (utility model), DK (utility model), DM, DZ, EC, EE (utility model), ES, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



162162

WO 02/061764 A1

(54) Title: COMPLIANT AND CROSSLINKABLE THERMAL INTERFACE MATERIALS

(57) Abstract: Described is a compliant and crosslinkable thermal interface material of at least one silicone resin mixture, at least one wetting enhancer and at least one thermally conductive filler, and a method of making and using same; as well as a method of improving thermal conductivity of polymer and resin systems.