

Title (en)
Resistor coated on diamond substrate

Title (de)
Widerstand auf einem Substrat aus Diamant

Title (fr)
Resistance déposée sur un substrat en diamant

Publication
EP 0688026 A1 19951220 (EN)

Application
EP 95303424 A 19950523

Priority

- US 26210794 A 19940617
- US 34765994 A 19941201

Abstract (en)
A thin film resistance layer is deposited on a diamond substrate. A nickel-chromium-carbon alloy with improved adhesion of the metal to the diamond substrate and a desirably low temperature coefficient of resistance is created.

IPC 1-7
H01C 7/00

IPC 8 full level
H05K 1/16 (2006.01); **C23C 30/00** (2006.01); **C30B 29/04** (2006.01); **H01C 7/00** (2006.01); **H01L 23/14** (2006.01)

CPC (source: EP KR)
H01C 7/00 (2013.01 - KR); **H01C 7/006** (2013.01 - EP)

Citation (search report)

- [A] DAVID NORWOOD ET AL.: "Diamond - A New High Thermal Conductivity Substrate for Multichip Modules and Hybrid Circuits", PROCEEDINGS OF IEEE 43RD ELECTRONIC COMPONENTS AND TECHNOLOGY CONFERENCE, 1 June 1993 (1993-06-01) - 4 June 1993 (1993-06-04), ORLANDO, FL, USA, pages 910 - 919
- [A] CD IACOVANGELO ET AL.: "Metallizing CVD Diamond for Electronic Applications", PROCEEDING OF 1993 INTERNATIONAL SYMPOSIUM ON MICROELECTRONICS, 9 November 1993 (1993-11-09) - 11 November 1993 (1993-11-11), DALLAS, TEXAS, pages 132 - 138
- [A] F. HEGNER: "The industrial production of High Quality Nickel-Chromium Resistors with Controlled Temperature Coefficient of Resistance", THIN SOLID FILMS, vol. 57, no. 2, LAUSANNE, pages 359 - 362

Cited by
CN115323318A; DE19849471A1; FR2995618A1; US7887628B2; US6723420B2; WO02082473A3; WO2014045220A1; US8501143B2; US9103050B2

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