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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 August 2004 (12.08.2004)

(10) International Publication Number
WO 2004/068541 A2

RECEIVED WIPO AUG 2 0 2004 PCT GENERAL ELECTRIC CO.

(51) International Patent Classification[7]: H01L

(21) International Application Number:
PCT/US2004/001128

(22) International Filing Date: 16 January 2004 (16.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/441,165 17 January 2003 (17.01.2003) US
60/442,409 24 January 2003 (24.01.2003) US

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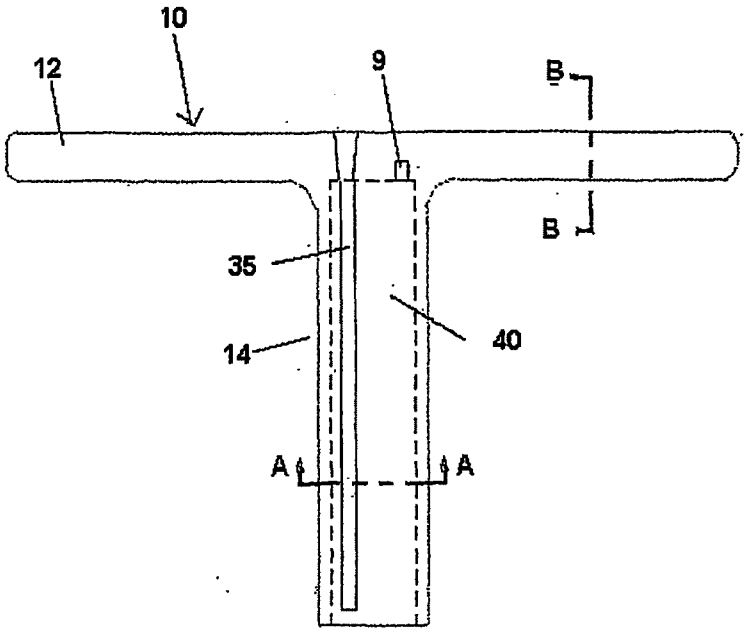
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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH,

[Continued on next page]

(54) Title: WAFER HANDLING APPARATUS AND METHOD OF MANUFACTURING THEREOF



(57) Abstract: A wafer processing device or apparatus, i.e., a heater or an electrostatic chuck, comprises a planar support platen, a support shaft having centrally located bore, and a pair of electrical conductors located in the shaft. In one embodiment, the electrical conductors are concentrically located within the bore of the shaft, with the first electrical lead being in the form of a pyrolytic graphite rod and separated from the outer second graphite electrical lead by means of a pyrolytic boron nitride (pBN) coating. In a second embodiment, the support platen and the support shaft are formed from a single unitary body of graphite. In yet another embodiment of the device of the invention, the connection posts comprise a carbon fiber composite and the exposed ends of the electrical connectors are coated with a protective ceramic paste for extended life in operations.

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GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

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