

(19) World Intellectual Property
Organization
International Bureau



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

PCT

(10) International Publication Number
WO 2004/068902 A3

(51) International Patent Classification⁷: **H05B 6/10**

(21) International Application Number:
PCT/US2004/002104

(22) International Filing Date: 26 January 2004 (26.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/351,769 27 January 2003 (27.01.2003) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/351,769 (CIP)
Filed on 27 January 2003 (27.01.2003)

(71) Applicant and

(72) Inventor: DALTON, Robert, C. [US/US]; 455 Ocean Boulevard, #27, Long Branch, NJ 07740 (US).

(74) Agent: COLTON, Laurence, P.; Technoprop Colton LLC, P.O. Box 567685, Atlanta, GA 31156-7685 (US).

(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 (patent), UZ, VC, VN, YU, ZA, ZM, ZW.

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

Declaration under Rule 4.17:

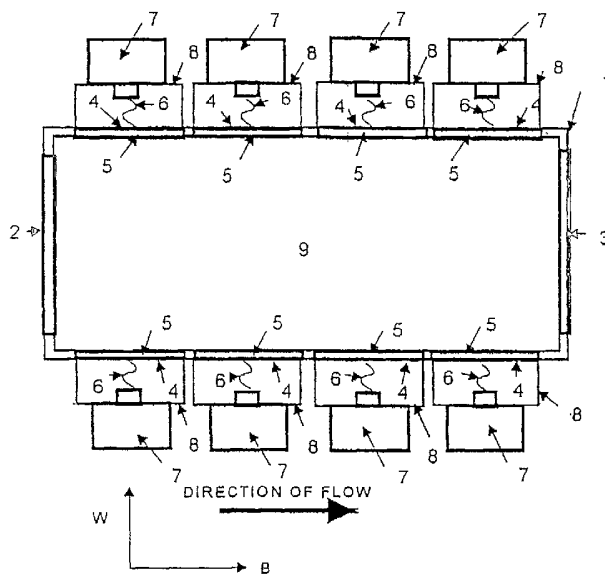
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

(54) Title: ELECTROMAGNETIC SUSCEPTORS WITH COATINGS FOR ARTIFICIAL DIELECTRIC SYSTEMS AND DEVICES



(57) Abstract: A coated susceptor of electromagnetic energy for chemical processing made of a matrix material that surrounds a non-matrix material that is made from a material that is different from the matrix material, in which the matrix material is constructed of material having lower dielectric losses compared to the non-matrix material, the non-matrix material initially absorbs electromagnetic energy applied to the electromagnetic susceptor to a greater extent than the matrix material, the non-matrix material produces subsequent heat in the matrix material, and the surface of the susceptor is coated with a material that interacts with applied electromagnetic energy of at least one frequency and initially absorbs electromagnetic energy and produces heat.

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— *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.

(88) Date of publication of the international search report:

10 March 2005

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/02104

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H05B 6/10

US CL : 219/634, 638, 759, 633, 728, 730; 422/168, 171, 174, 211; 204/157.15, 157.3, 158.2; 60/274, 526, 531

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 219/634, 638, 759, 633, 728, 730; 422/168, 171, 174, 211; 204/157.15, 157.3, 158.2; 60/274, 526, 531, 520, 650, 39.35; 428/238

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST; INVENTOR SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,294,763 A (CHAMBERLAIN ET AL.) 15 March 1994, see entire document.	
A	US 5,338,911 A (BRANDBERG ET AL.) 16 August 1994, see entire document.	
A	US 5,021,293 A (HUANG ET AL.) 04 June 1991, see entire document.	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"&"

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Date of the actual completion of the international search

09 August 2004 (09.08.2004)

Date of mailing of the international search report

10 JAN 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

ANDRES KASHNIKOV
Telephone No. 703 308-0858