(54) Title: ARC-RESISTANT MICROWAVE SUSCEPTOR ASSEMBLY HAVING OVERHEATING PROTECTION

(57) Abstract: A susceptor assembly includes electrically conductive vanes positioned with respect to each other and to a planar susceptor member having an electrically lossy layer thereon to prevent overheating of the susceptor in an unloaded microwave oven and wherein the electrically conductive vanes are configured to prevent arcing in an unloaded microwave oven.
Published: 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.

— 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

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

16 August 2007
**A. CLASSIFICATION OF SUBJECT MATTER**
INV. H05B6/74 H05B6/64

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)
H05B

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 practical, search terms used)
EPO-Internal , PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5 877 479 A (YU HAK-SEOK [KR]) 2 March 1999 (1999-03-02) abstract figures 3,4 column 3, lines 40-55 column 4, lines 20-52 claims 1-3</td>
<td>1-50</td>
</tr>
<tr>
<td>A</td>
<td>GB 2 329 815 A (SAMSUNG ELECTRONICS CO LTD [KR]) 31 March 1999 (1999-03-31) abstract figures 2,3,5 page 4, line 9 - page 5, line 14 claims 1,2</td>
<td>1-50</td>
</tr>
</tbody>
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**Further documents are listed in the continuation of Box C**

**See patent family annex**

* Special categories of cited documents

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
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- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

**Date of the actual completion of the international search**
7 June 2007

**Date of mailing of the international search report**
20/06/2007

**Name and mailing address of the ISA/ European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016**

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>JP 08 203668 A (SANYO ELECTRIC CO) 9 August 1996 (1996-08-09) abstract</td>
<td>1-50</td>
</tr>
<tr>
<td>A</td>
<td>EP 0 049 551 A2 (PHILIPS SVENSKA AB [SE]; PHILIPS NV [NL]) 14 April 1982 (1982-04-14) abstract page 7, line 17 - page 8, line 7 figures 1-3</td>
<td>1-50</td>
</tr>
</tbody>
</table>
### INTERNATIONAL SEARCH REPORT

**Information on patent family members**

**U.S. Patent Number**: 6,578,749
**Publication Date**: 02-03-1999
**Family Member(s)**: FR 2757931 A1, OP 10185207 A
**Publication Date**: 03-07-1998

**EP 0049551 A2**

**Publication Date**: 14-04-1982
**Family Member(s)**: CA 1176710 A1, DE 3175892 D1, JP 1645592 C, JP 3008080 B, JP 57092786 A, SE 439092 B, SE 8006994 A, US 4424430 A