INDUCTION COOKWARE WITH FERROMAGNETIC COATING AND COATING METHOD

Abstract: Induction heatable cookware and servingware items, and methods and coatings for making induction heatable items are provided. The items of the instant invention are made by applying a ferromagnetic coating to a nonmagnetic item. The ferromagnetic coating is made by grinding or pulverizing a ferromagnetic material, such as steel or iron, into a powder and mixing it with a suitable coating material for the item.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: H05B 6/12(2006.01);A47J 27/00(2006.01)
B65D 25/34(2006.01)

USPC: 219/621,634,649;126/390.1;427/191;428/35.8
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.: 219/621, 634, 649, 620, 622; 126/390.1; 427/191; 428/35.8, 35.9, 35.3; 29/592, 592.1, 602.1

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)
Please See Continuation Sheet

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>JP 08-060868 A (TAKAHASHI et al) 12 March 1996 (12.03.1996), see Figure 1 and the English Abstract.</td>
<td>1-6, 8-10, 13 and 15, 7, 11, 12 and 14</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,614,852 A (MATSUSHITA et al) 30 September 1986 (30.09.1986), see the Figure and col. 1, line 59 - col. 4, line 3.</td>
<td>1-6, 8-10, 13 and 15, 7, 11, 12 and 14</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,324,785 A (NODA et al) 28 June 1994 (28.06.1994) see col. 8, line 31-64 and col. 11, line 64 - col. 12, line 9.</td>
<td>3, 7, 11, 12 and 14</td>
</tr>
</tbody>
</table>

☐ 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 application or patent published on or after the international filing date
  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  "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

+ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Date of the actual completion of the international search
17 August 2006 (17.08.2006)

Date of mailing of the international search report
05 OCT 2006

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:

EAST, search terms: ferromagnetic, iron, coating, inductive, heating, cooking, spray, dipping, brushing, powder grind, pulverize.