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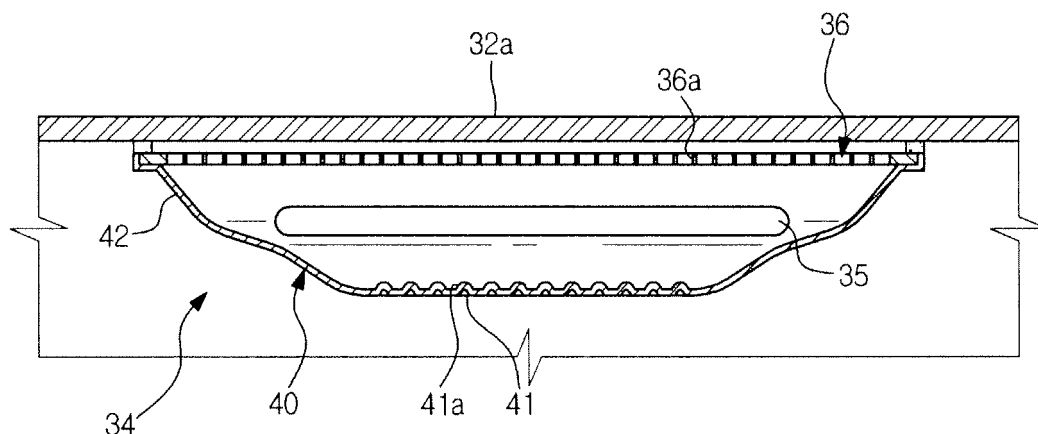
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(54) **Cooking apparatus**

(57) A cooking apparatus equipped with a heating device enabling uniform distribution of heat. The cooking apparatus includes a plate to put a cooker thereon, a

heater disposed under the plate, and a guide member disposed between the plate and the heater to induce energy emitted from the heater toward the plate.

**FIG. 3**





## EUROPEAN SEARCH REPORT

Application Number  
EP 10 15 1494

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 4 489 234 A (HARDEN JR JOHN D [US] ET AL) 18 December 1984 (1984-12-18) * column 2, line 36 - line 65; figure 1 * -----	1	INV. H05B3/74
X	DE 17 53 176 A1 (KUSTER WYSS JOHANNA) 15 July 1971 (1971-07-15) * page 2; figures 1,3 * -----	1	
A	JP 2006 228971 A (USHIO ELECTRIC INC) 31 August 2006 (2006-08-31) * abstract; figures 3c,4 * -----	1-9,14	
A	GB 2 201 320 A (SENJU METAL INDUSTRY CO SENJU METAL INDUSTRY CO [JP]) 24 August 1988 (1988-08-24) * page 5, line 24 - page 6, line 20; figure 1 * -----	1-9,14	
<del>The present search report has been drawn up for all claims</del>			TECHNICAL FIELDS SEARCHED (IPC)
			H05B
Place of search		Date of completion of the search	Examiner
Munich		4 June 2010	Gea Haupt, Martin
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)



Application Number

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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-9(completely); 14(partially)

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number

EP 10 15 1494

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9(completely); 14(partially)

A cooking apparatus with a guide member

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2. claims: 10-13(completely); 14(partially)

A cooking apparatus with a reflection member.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 15 1494

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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04-06-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4489234	A	18-12-1984	NONE	
-----				
DE 1753176	A1	15-07-1971	BE 709733 A	30-05-1968
			CH 453517 A	14-06-1968
			LU 55319 A	30-03-1968
			NL 6800957 A	24-07-1968
			US 3544765 A	01-12-1970
-----				
JP 2006228971	A	31-08-2006	NONE	
-----				
GB 2201320	A	24-08-1988	DE 3804704 A1	25-08-1988
			US 5058196 A	15-10-1991
-----				