

Title (en)
HEATING CHAMBER WITH A HYBRID HEATING SYSTEM

Title (de)
HEIZKAMMER MIT EINEM HYBRIDEN HEIZSYSTEM

Title (fr)
CHAMBRE DE CHAUFFAGE À L'AIDE D'UN SYSTÈME DE CHAUFFAGE HYBRIDE

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Abstract (en)
The subject of the present invention is a heating chamber with a hybrid heating system, in particular for automatic food preparation and processing systems. The heating system is a combination of different heat exchange methods, wherein the basic source of heating is microwave radiation assisted by infrared radiation. The walls (4) of the heating chamber (3) are connected to each other by a finger joint (6, 7) through suitably shaped protrusions (6) and slots (7) located essentially along edges of the joined walls (4), wherein the protrusion bottom (6) comprises, along the transverse edges, recesses (8) for close adherence of the joined elements.

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Citation (applicant)
• US 4803324 A 19890207 - FUJII MASANOBU [JP], et al
• US 4592485 A 19860603 - ANDERSON C KEITH [US], et al
• DE 3815466 A1 19891116 - TEPRO PRAEZISIONSTECHNIK GMBH [DE]
• CN 105118156 A 20151202 - NINGBO JINGRUI INTELLIGENT TECHNOLOGY CO LTD
• FR 2836267 A1 20030822 - DATEK SAS [IT], et al
• PL 221008 B1 20160229 - JOPEK WOJCIECH [PL], et al

Citation (search report)
• [A] GB 2353897 A 20010307 - LG ELECTRONICS INC [KR]
• [A] DE 812130 C 19511210 - AHLMANN CARLSHUETTE KG
• [A] WO 8602143 A1 19860410 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [A] US 2004232134 A1 20041125 - INOUE TAKAHIRO [JP], et al
• [A] JP S60181524 A 19850917 - ENAMI SEIKI KK
• [A] US 4563559 A 19860107 - ENAMI TOSHIAKI [JP]

Cited by
WO2021082152A1; WO2021082151A1

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