

Title (en)

OVEN FOR COOKING FOODS AND STEAM GENERATION DEVICE FOR AN OVEN FOR COOKING FOODS

Title (de)

OFEN ZUM KOCHEN VON NAHRUNGSMITTELN UND DAMPFERZEUGUNGSVORRICHTUNG FÜR EINEN OFEN ZUM KOCHEN VON NAHRUNGSMITTELN

Title (fr)

FOUR POUR CUIRE DES ALIMENTS ET DISPOSITIF DE GÉNÉRATION DE VAPEUR POUR UN FOUR DE CUISSON D'ALIMENTS

Publication

EP 4063748 A1 20220928 (EN)

Application

EP 22164821 A 20220328

Priority

IT 202100007538 A 20210326

Abstract (en)

Oven for cooking foods comprising a support structure (2), which at least partially delimits a cooking chamber (3) and is provided with a lower wall (4), and a steam generation device (5), which is mechanically associated with the support structure (2) and is placed in fluid communication with the cooking chamber (3) in order to introduce a steam flow at its interior. The steam generation device (5) is provided with a containment tank (6) for containing a liquid dose, and such containment tank (6) is provided with at least one maximum level height (7) and is placed at least partially below the lower wall (4), with heating means (8), which are at least partially housed in the containment tank (6) in order to generate the steam flow, and with supply means (10) for supplying liquid into the containment tank (6) in order to restore the liquid dose substantially to the maximum level height (7). In addition, the heating means (8) comprise at least one electrical heating element (9), which is extended within the containment tank (6) on a lying plane (α) parallel to the lower wall (4), the containment tank (6) has a capacity of 0.5 - 3.8 dm³ for the liquid dose and the electric power density per unit of volume of containment tank (6), absorbed by the electrical heating element (9), is comprised between 1.1 kW/dm³ and 2.5 kW/dm³. In addition, the containment tank (6) comprises an upper cover (13) provided with a through opening (14) placed above said maximum level height (7) and which places the interior of the containment tank (6) directly in fluid communication with the cooking chamber (3) of said support structure (2).

IPC 8 full level

F24C 15/32 (2006.01)

CPC (source: EP)

F24C 15/327 (2013.01)

Citation (applicant)

GB 2218328 A 19891115 - E & R MOFFAT LIMITED [GB]

Citation (search report)

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- [Y] EP 1975517 A2 20081001 - EGO ELEKTRO GERAETEBAU GMBH [DE]
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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