

Title (en)  
FOOD COOKING OVEN WITH A DOOR CLOSING DEVICE

Title (de)  
BACKOFEN MIT EINER SCHLIEßVORRICHTUNG

Title (fr)  
FOUR DE CUISSON AVEC UN DISPOSITIF DE FERMETURE

Publication  
**EP 1998117 B1 20111221 (EN)**

Application  
**EP 07109424 A 20070601**

Priority  
EP 07109424 A 20070601

Abstract (en)  
[origin: EP1998117A1] The present invention refers to a cooking oven, which is provided with a cooking cavity and a related door hinged on a vertical side edge thereof, a door locking device located on a vertical front corner edge of the cooking cavity, an engagement or latching device attached to the corresponding vertical corner edge of the door and comprising a fixed member connected to the vertical corner edge of the door, a latch elastically engaging a receptacle provided in the fixed member and adapted to slide therein so as to be able to both be introduced in said fixed member and protrude therefrom. The recessed locking device comprises a first lower portion with an outwardly opening surface having a triangular shape, which is positioned so as to feature an outer edge and an opposite inner side, and which is inclined on the horizontal plane with a slope descending from the inner side towards the opposite outer edge; it further comprises a vertical surface extending through said inner side, and an inner recess provided behind said first portion. The purpose of said triangular surface sloping on the horizontal plane is to enable the door to automatically rise and move into alignment as it is being closed.

IPC 8 full level  
**F24C 15/02** (2006.01); **E05C 19/02** (2006.01)

CPC (source: EP)  
**E05C 19/028** (2013.01); **F24C 15/022** (2013.01)

Citation (examination)  
• DE 202004003999 U1 20040513 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• EP 2072722 A2 20090624 - BSH BOSCH SIEMENS HAUSGERAETE [DE]  
• GB 770845 A 19570327 - DAIMLER BENZ AG  
• JP 1722166 A  
• EP 1703212 A2 20060920 - ELTEK SPA [IT]  
• EP 1793174 A2 20070606 - LG ELECTRONICS INC [KR]

Cited by  
DE102015220719A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1998117 A1 20081203; EP 1998117 B1 20111221**; AT E538348 T1 20120115; WO 2008145476 A1 20081204

DOCDB simple family (application)  
**EP 07109424 A 20070601**; AT 07109424 T 20070601; EP 2008055430 W 20080502