

Title (en)

COOKING APPLIANCE WITH A FLOW DIRECTING DEVICE

Title (de)

GARGERÄT MIT EINER STRÖMUNGSLEITVORRICHTUNG

Title (fr)

APPAREIL DE CUISSON AVEC UN DISPOSITIF DE GUIDAGE DE FLUX

Publication

EP 2350533 B1 20130731 (DE)

Application

EP 09748082 A 20091023

Priority

- EP 2009064020 W 20091023
- DE 102008053145 A 20081024

Abstract (en)

[origin: WO2010046491A2] The invention relates to a flow directing device for a cooking appliance comprising a fan mechanism that has at least one fan wheel in the interior of the cooking appliance in order to circulate atmosphere. The disclosed flow directing device comprises at least one first flow directing member for subdividing the interior into a pressure chamber containing the fan wheel and a cooking chamber. The first flow directing member has at least one suction port for sucking atmosphere from the cooking chamber into the pressure chamber when the fan wheel is on, and at least one blow-off port for blowing atmosphere from the pressure chamber into the cooking chamber when the fan wheel is on. The flow directing device further comprises at least one second flow directing member which is mounted on or molded onto the fan mechanism in the area of the suction port of the first flow directing member in order to improve the flow from the cooking chamber into the pressure chamber by forcing an axial main flow in the suction zone of the fan mechanism. Each second flow directing member (11, 236) has a nozzle function, extends from the fan mechanism (2, 3, 210) into the cooking chamber (8), and projects from or grips the edge of the suction port (10b) of the first flow directing member (7), while the first flow directing member (7) extends to each second flow directing member (11). The invention also relates to a cooking appliance for said flow directing device.

IPC 8 full level

F24C 15/32 (2006.01)

CPC (source: EP US)

F24C 15/32 (2013.01 - US); **F24C 15/322** (2013.01 - EP US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

DE 102008053145 A1 20100429; BR PI0919855 A2 20151215; BR PI0919855 B1 20191231; CN 102203511 A 20110928; DK 2350533 T3 20131007; EP 2350533 A2 20110803; EP 2350533 B1 20130731; JP 2012506528 A 20120315; US 2011253123 A1 20111020; US 9557066 B2 20170131; WO 2010046491 A2 20100429; WO 2010046491 A3 20100729; WO 2010046491 A4 20100916

DOCDB simple family (application)

DE 102008053145 A 20081024; BR PI0919855 A 20091023; CN 200980142201 A 20091023; DK 09748082 T 20091023; EP 09748082 A 20091023; EP 2009064020 W 20091023; JP 2011532655 A 20091023; US 200913125793 A 20091023