

Title (en)

DEVICE FOR CUTTING FOOD USING A LIQUID JET

Title (de)

VORRICHTUNG ZUM ZERTEILEN VON LEBENSMITTELN MITTELS FLÜSSIGKEITSSTRAHL

Title (fr)

DISPOSITIF DE DÉCOUPAGE DE PRODUITS ALIMENTAIRES AU MOYEN D'UN JET DE FLUIDE

Publication

EP 3368253 B1 20191009 (DE)

Application

EP 16809282 A 20161031

Priority

- DE 102015118610 A 20151030
- DE 2016100512 W 20161031

Abstract (en)

[origin: WO2017071697A1] The invention relates to a device for cutting food (1) using a liquid jet (4), comprising: an advancing device (2) which conveys the food (1) in an advancing direction (V) and has a processing region (5) on which the food (1) lies and in which said liquid jet (4) is directed onto the food (1); and a discharge nozzle (3) which is arranged in the region of the processing region (5) and from which the liquid jet (4) is emitted, said processing region (5) comprising, underneath the food (1), a jet passage for the liquid jet (4) as it comes out from the food (1) and, beneath said jet passage, a jet receiving portion (6) is provided for the liquid jet (4) and the removal of same. Known devices present the disadvantage of the cutting results not being optimum for certain foods. The invention improves this in that, underneath the jet passage (10), a lower suction device (7) is provided as well as optionally an additional upper suction device (8), for particles taken off with the liquid jet (4) and/or for amounts of liquid that collect particularly at the jet passage or that separate from the liquid jet (4).

IPC 8 full level

B26F 3/00 (2006.01)

CPC (source: EP US)

B26F 3/004 (2013.01 - EP US); **B26F 3/008** (2013.01 - EP US); **B26F 2210/00** (2013.01 - EP US)

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

DOCDB simple family (publication)

WO 2017071697 A1 20170504; AU 2016345212 A1 20180510; BR 112018008637 A2 20181030; CA 3003307 A1 20170504; CN 108602197 A 20180928; CN 108602197 B 20200103; DE 102015118610 A1 20170504; DE 112016004999 A5 20180712; DK 3368253 T3 20191104; EP 3368253 A1 20180905; EP 3368253 B1 20191009; ES 2752186 T3 20200403; JP 2018535106 A 20181129; JP 6866366 B2 20210428; PL 3368253 T3 20200131; US 10919174 B2 20210216; US 2018304488 A1 20181025

DOCDB simple family (application)

DE 2016100512 W 20161031; AU 2016345212 A 20161031; BR 112018008637 A 20161031; CA 3003307 A 20161031; CN 201680063908 A 20161031; DE 102015118610 A 20151030; DE 112016004999 T 20161031; DK 16809282 T 20161031; EP 16809282 A 20161031; ES 16809282 T 20161031; JP 2018522607 A 20161031; PL 16809282 T 20161031; US 201615770821 A 20161031