

Title (en)

APPARATUS AND METHOD FOR THE TREATMENT OF FOOD WITH MICROWAVES

Publication

EP 0113900 B1 19881123 (DE)

Application

EP 83112750 A 19831217

Priority

DE 3247527 A 19821222

Abstract (en)

[origin: EP0113900A1] In the device, the method and utilization thereof for the industrial treatment by microwaves of alimentary pastes in bulk (56), the alimentary pastes (56) are conveyed by a mechanical conveying unit (9; 30; 59; 100; 101) controlled by a passage drum (9; 30) through a treatment chamber (4; 60; 80; 102). It is essential that each portion of the bulk material (56) is exposed to conditioned air and that a relative motion is generated between the conditioned air and the isolated portion of bulk material (56). The treatment chamber (4; 60; 80; 102) may be supplied with microwave energy by an extended field radiation source (125) or by a direct decoupling (8) providing from a wave guide (7; 122; 123; 145). Thereby, a very good spatial and chronological distribution of microwave energy is obtained. It is possible for example to heat and/or dry successfully pastes (56) or other food products, to remove the bitterness of soya-beans and to roast the beans according to the continuous passage system. It is further possible to puff snacks, tobacco stems, etc.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

F26B 3/343 (2013.01); **F26B 17/00** (2013.01); **H05B 6/782** (2013.01)

Cited by

US9958203B2; US5408074A; FR2645950A1; CN102326858A; US9603203B2; US9642194B2; WO2017038115A1; WO03027590A3; WO9222365A3; US9316437B2; US10139161B2; US10139160B2; WO9309647A1; WO2023047361A1

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