

Title (en)
FREEZING METHOD, AND METHOD AND DEVICE FOR DRYING FOOD, IN PARTICULAR FRUITS AND VEGETABLES

Title (de)
VERFAHREN ZUM EINFRIEREN UND VERFAHREN SOWIE VORRICHTUNG ZUM TROCKNEN VON LEBENSMITTELN, INSBESONDERE VON OBST UND GEMÜSE

Title (fr)
PROCÉDÉ DE CONGÉLATION ET PROCÉDÉ ET DISPOSITIF DE SÉCHAGE DE PRODUITS ALIMENTAIRES, EN PARTICULIER DE FRUITS ET LÉGUMES

Publication
EP 3641560 A1 20200429 (DE)

Application
EP 18732290 A 20180612

Priority

- DE 102017210327 A 20170620
- EP 2018065447 W 20180612

Abstract (en)
[origin: CA3069907A1] The invention relates to a method for freezing food, in particular fruits and vegetables, and to a method for drying food, in particular fruits and vegetables. The food is exposed to a negative pressure, and water is drawn from the food while exposed to the negative pressure. The invention further relates to a device for drying food, in particular fruits and vegetables, comprising a negative pressure chamber, a vacuum pump for generating a negative pressure in the negative pressure chamber, and a liquefier which is connected to the negative pressure chamber via a closable valve. The invention provides a method and a device for freezing or drying food, in particular fruits and vegetables, said method and device maintaining product properties of the food, such as color, flavor, and structure, as much as possible and at the same time being as time-saving, energy-saving, and inexpensive as possible in that the food is conditioned by applying an electric field during the method, and the device comprises at least one capacitor for generating an electric field.

IPC 8 full level
A23L 3/32 (2006.01); **A23L 3/44** (2006.01)

CPC (source: EP US)
A23B 7/015 (2013.01 - EP US); **A23B 7/024** (2013.01 - EP US); **A23B 7/0408** (2013.01 - US)

Citation (search report)
See references of WO 2018234090A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102017210327 A1 20181220; CA 3069907 A1 20181227; EP 3641560 A1 20200429; MX 2019015514 A 20200910; US 2021153515 A1 20210527; WO 2018234090 A1 20181227

DOCDB simple family (application)
DE 102017210327 A 20170620; CA 3069907 A 20180612; EP 18732290 A 20180612; EP 2018065447 W 20180612; MX 2019015514 A 20180612; US 201816618212 A 20180612