

Title (en)

METHOD AND APPARATUS FOR CONTROLLING A FREEZE DRYING PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG EINES GEFRIERTROCKNUNGSPROZESSES

Title (fr)

PROCEDE ET DISPOSITIF DE COMMANDE D'UN PROCESSUS DE LYOPHILISATION

Publication

**EP 0980503 B1 20010711 (DE)**

Application

**EP 98922751 A 19980421**

Priority

- DE 19719398 A 19970507
- EP 9802335 W 19980421

Abstract (en)

[origin: DE19719398A1] The invention relates to a method for controlling a freeze drying process, wherein a frozen product is arranged on temperable surfaces in an air-evacuated chamber (1) and undergoes a main drying and after-drying phase. During the main drying phase the temperature of the ice surrounding said product is continuously measured. The pressure in the chamber and/or the temperature of the surfaces are modified during transition from the main drying phase to the after-drying phase. In order to avoid longer idle periods between the chamber (1) and the evacuation device (3, 4, 14) and to determine transition from the main drying phase to the after-drying phase, the invention provides that the pressure and/or the temperature of the surfaces characterizing said transition should be modified according to changes in the temperature of the ice.

IPC 1-7

**F26B 5/06**

IPC 8 full level

**A23L 3/44** (2006.01); **F26B 5/06** (2006.01)

CPC (source: EP US)

**F26B 5/06** (2013.01 - EP US)

Cited by

DE102016215844A1; DE102016215844B4

Designated contracting state (EPC)

BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

**DE 19719398 A1 19981112**; DE 59801008 D1 20010816; DK 0980503 T3 20011022; EP 0980503 A1 20000223; EP 0980503 B1 20010711;  
ES 2161532 T3 20011201; JP 2001525049 A 20011204; US 6163979 A 20001226; WO 9850744 A1 19981112

DOCDB simple family (application)

**DE 19719398 A 19970507**; DE 59801008 T 19980421; DK 98922751 T 19980421; EP 9802335 W 19980421; EP 98922751 A 19980421;  
ES 98922751 T 19980421; JP 54766598 A 19980421; US 42347700 A 20000320