

Title (en)  
Refrigerating and freezing method for water containing products

Title (de)  
Verfahren zum Kühlen und Gefrieren wasserhaltiger Produkte

Title (fr)  
Procédé pour réfrigérer et congeler des produits contenant de l'eau

Publication  
**EP 0913652 B1 20041103 (DE)**

Application  
**EP 98120341 A 19981028**

Priority  
DE 19748362 A 19971103

Abstract (en)  
[origin: EP0913652A2] The product is placed in a vacuum chamber in which the pressure is reduced by a vacuum pump until water vapor leaves the product. It is then cooled by direct evaporation cooling and absorbed in a zeolite bed before the vacuum pump. Evacuation of the vacuum chamber is matched to the absorption characteristics of the zeolite bed so that the product achieves the desired state e.g. temperature, water content etc. No water vapor flows through the zeolite to the vacuum pump.

IPC 1-7  
**F25C 1/16**; **F25B 17/08**

IPC 8 full level  
**F25B 17/08** (2006.01); **F25C 1/16** (2006.01); **F25D 31/00** (2006.01)

CPC (source: EP)  
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AT CH DE FR GB IT LI SE

DOCDB simple family (publication)  
**EP 0913652 A2 19990506**; **EP 0913652 A3 20001213**; **EP 0913652 B1 20041103**; AT E281638 T1 20041115; DE 19748362 A1 19990506; DE 59812213 D1 20041209

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**EP 98120341 A 19981028**; AT 98120341 T 19981028; DE 19748362 A 19971103; DE 59812213 T 19981028