

Title (en)

NOFROST COOLING PROCESS FOR A TEMPERATURE RANGE ABOVE 0°C.

Title (de)

NOFROST-KÜHLVERFAHREN FÜR EINEN KÜHLBEREICH ÜBER 0°C.

Title (fr)

PROCEDE DE REFRIGERATION-CONSERVATION A DES TEMPERATURES SUPERIEURES A 0°C.

Publication

EP 0365650 B1 19950920 (DE)

Application

EP 89905086 A 19890427

Priority

- CA 600217 A 19890519
- DE 3814238 A 19880427
- EP 8900464 W 19890427

Abstract (en)

[origin: WO8910523A1] Traditional nofrost cooling processes are based on the circulation of substantially supercooled air through the actual cooling chamber. Because the air is substantially supercooled, the humidity it contains condenses on the evaporator, and its humidity level becomes very low. Thus the foodstuffs stored in the cooling chamber dry out unless they are packed in airtight containers to reduce the drying process. According to said invention, cold is conveyed into the cooling chamber (1) by means of convectors (2, 26), and fresh air of a higher temperature is supplied in a controlled manner so that the temperature decreases. To avoid power loss due to the quantity of heat supplied, the displaced cold air is channeled towards a heat exchanger (3) in the condenser (4) of the cooling machine (5). Since the fresh air which circulates is always above 0 DEG C, the humidity content of the fresh air supplied can be controlled and be filtered to remove odours.

IPC 1-7

F25D 17/06; **F25D 21/04**

IPC 8 full level

F25D 17/08 (2006.01); **F25D 13/00** (2006.01); **F25D 16/00** (2006.01); **F25D 17/04** (2006.01); **F25D 17/06** (2006.01); **F25D 19/00** (2006.01); **F25D 21/04** (2006.01); **F25D 23/00** (2006.01)

CPC (source: EP US)

F25D 16/00 (2013.01 - EP US); **F25D 17/042** (2013.01 - EP US); **F25D 21/04** (2013.01 - EP US)

Citation (examination)

US 2161421 A 19390606 - KUCHER ANDREW A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 8910523 A1 19891102; AT E128223 T1 19951015; AU 3548489 A 19891124; AU 623890 B2 19920528; CA 1332876 C 19941108; DE 3814238 A1 19891109; DE 3814238 C2 19910704; DE 58909445 D1 19951026; EP 0365650 A1 19900502; EP 0365650 B1 19950920; JP H03500570 A 19910207; US 5040378 A 19910820

DOCDB simple family (application)

EP 8900464 W 19890427; AT 89905086 T 19890427; AU 3548489 A 19890427; CA 600217 A 19890519; DE 3814238 A 19880427; DE 58909445 T 19890427; EP 89905086 A 19890427; JP 50489189 A 19890427; US 45780989 A 19891222