

Title (en)

METHOD AND DEVICE FOR EVAPORATING LIQUID OXYGEN

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERDAMPFEN VON FLÜSSIGEM SAUERSTOFF

Title (fr)

PROCEDE ET DISPOSITIF POUR VAPORISER DE L'OXYGENE LIQUIDE

Publication

EP 1051588 B1 20020403 (DE)

Application

EP 99906129 A 19990115

Priority

- EP 99906129 A 19990115
- DE 19803583 A 19980130
- EP 9900203 W 19990115
- EP 98107128 A 19980420

Abstract (en)

[origin: WO9939143A1] The invention relates to a method and a device for evaporating liquid oxygen. During normal operation, liquid oxygen is introduced into a main evaporator (3) where it is partially evaporated, a first rinsing stream (5) is removed from the main evaporator (3) as a liquid, the first rinsing stream (5) is partially evaporated in a supplementary evaporator (6) and a second rinsing stream (7) is removed from the supplementary evaporator (6) as a liquid. Normal operation is then interrupted by a heating up mode in which no liquid (5) is guided out of the main evaporator (3) into the supplementary evaporator (6) and the supplementary evaporator (6) is heated up to a significantly higher temperature than its temperature during normal operation.

IPC 1-7

F25J 3/08; **F25J 3/04**

IPC 8 full level

F25J 3/04 (2006.01); **F25J 3/08** (2006.01)

CPC (source: EP US)

F25J 3/04412 (2013.01 - EP US); **F25J 3/04418** (2013.01 - EP US); **F25J 3/04824** (2013.01 - EP US); **F25J 3/0486** (2013.01 - EP US); **F25J 3/04884** (2013.01 - EP US); **F25J 2205/60** (2013.01 - EP US); **F25J 2250/02** (2013.01 - EP US); **F25J 2250/04** (2013.01 - EP US); **F25J 2250/10** (2013.01 - EP US); **F25J 2250/20** (2013.01 - EP US); **F25J 2250/40** (2013.01 - EP US); **F25J 2250/42** (2013.01 - EP US); **F25J 2250/50** (2013.01 - EP US); **Y10S 62/905** (2013.01 - EP US)

Designated contracting state (EPC)

DE DK ES FI FR GB IT SE

DOCDB simple family (publication)

WO 9939143 A1 19990805; AU 2617499 A 19990816; BR 9908350 A 20001205; CN 1154831 C 20040623; CN 1289404 A 20010328; DE 59901114 D1 20020508; DK 1051588 T3 20020701; EP 1051588 A1 20001115; EP 1051588 B1 20020403; ES 2175944 T3 20021116; JP 2002502017 A 20020122; KR 100528570 B1 20051115; KR 20010034421 A 20010425; US 6351968 B1 20020305

DOCDB simple family (application)

EP 9900203 W 19990115; AU 2617499 A 19990115; BR 9908350 A 19990115; CN 99802519 A 19990115; DE 59901114 T 19990115; DK 99906129 T 19990115; EP 99906129 A 19990115; ES 99906129 T 19990115; JP 2000529566 A 19990115; KR 20007008192 A 20000727; US 60121700 A 20000728