Title (en)

METHOD AND SYSTEM FOR TREATING AN OXYGEN-RICH LIQUID BATH COLLECTED AT THE FOOT OF A CRYOGENIC DISTILLATION COLUMN

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG EINES SAUERSTOFFREICHEN FLÜSSIGKEITBADES IM SUMPFTEIL EINER TIEFTEMPERATUR-DESTILLATIONSÄULE

Title (fr)

PROCEDE ET INSTALLATION DE TRAITEMENT D'UN BAIN DE LIQUIDE RICHE EN OXYGENE RECUEILLI EN PIED D'UNE COLONNE DE DISTILLATION CRYOGENIQUE

Publication

EP 1616139 A1 20060118 (FR)

Application

EP 04724040 A 20040329

Priority

• FR 2004050132 W 20040329
• FR 0350097 A 20030410

Abstract (en)

[origin: FR2853723A1] System for the purging of residual oxygen at the base of a column used for the cryogenic separation of air. Treatment of a liquid bath(5) containing at least 70% mol of O2 recovered at the base of a column(1) or element (3) of a cryogenic distillation columnmaking up part of a column system for the separation of air ; a continuous vaporiation of the liquid is effected by means of a primary vaporiser(6) in aluminum and part of the bath is purged to avoid an accumulation of inflammabe impurities.The purged quantity is conveyed to a second vaporiser(13), and the vaporised O2 is returned to the column(1).Part of the liquid O2 treated by the second vaporiser is purged, The second vaporiser is constructed of material less inflammable than the first. An independent claim is also included for the installation for the process.

IPC 1-7

F25J 3/04

IPC 8 full level

F25J 3/04 (2006.01)

CPC (source: EP US)

F25J 3/04412 (2013.01 - EP US); **F25J 3/04418** (2013.01 - EP US); **F25J 3/0486** (2013.01 - EP US); **F25J 3/04884** (2013.01 - EP US); **F25J 3/04939** (2013.01 - EP US); F25J 2250/02 (2013.01 - EP US); F25J 2250/20 (2013.01 - EP US); F25J 2290/44 (2013.01 - EP US); Y10S 62/903 (2013.01 - EP US)

Citation (search report)

See references of WO 2004092670A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2853723 A1 20041015; **FR 2853723 B1 20070330**; EP 1616139 A1 20060118; US 2006075778 A1 20060413; US 2008289361 A1 20081127; US 7380414 B2 20080603; WO 2004092670 A1 20041028

DOCDB simple family (application)

FR 0350097 A 20030410; EP 04724040 A 20040329; FR 2004050132 W 20040329; US 11667208 A 20080507; US 55212405 A 20051005