

Title (en)

Cryogenic air separation system with hybrid argon column.

Title (de)

Tiefemperatur-Luftzerlegungssystem mit hybrider Argonkolonne.

Title (fr)

Système cryogénique de séparation d'air avec colonne d'argon hybride.

Publication

EP 0439126 B1 19931027 (EN)

Application

EP 91100775 A 19910122

Priority

US 46887590 A 19900123

Abstract (en)

[origin: EP0439126A1] A cryogenic rectification system characterized by a hybrid argon column having trays in the lower portion (45) and packing in the upper portion (46) whereby the argon column is operated at a lower pressure thus enabling improved argon recovery while maintaining the pressure sufficiently high at the lower end of the argon column to enable fluid flow back to the main column system without need for pressurization.
<IMAGE>

IPC 1-7

F25J 3/04

IPC 8 full level

F25J 3/02 (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP KR)

F25J 3/04 (2013.01 - KR); **F25J 3/04303** (2013.01 - EP); **F25J 3/04412** (2013.01 - EP); **F25J 3/04678** (2013.01 - EP);
F25J 3/04915 (2013.01 - EP); **F25J 3/04921** (2013.01 - EP); **F25J 2205/02** (2013.01 - EP); **F25J 2290/10** (2013.01 - EP);
F25J 2290/12 (2013.01 - EP)

Cited by

EP0520382A1

Designated contracting state (EPC)

BE DE ES FR GB IT

DOCDB simple family (publication)

EP 0439126 A1 19910731; **EP 0439126 B1 19931027**; **EP 0439126 B2 19970305**; BR 9100289 A 19911022; CA 2034740 C 19950321;
DE 69100539 D1 19931202; DE 69100539 T2 19940217; DE 69100539 T3 19970710; ES 2045960 T3 19940116; ES 2045960 T5 19970501;
JP H04214174 A 19920805; JP H076736 B2 19950130; KR 910014141 A 19910831; KR 960003274 B1 19960307

DOCDB simple family (application)

EP 91100775 A 19910122; BR 9100289 A 19910123; CA 2034740 A 19910122; DE 69100539 T 19910122; ES 91100775 T 19910122;
JP 2038791 A 19910122; KR 910001015 A 19910122