

Title (en)
PROCESS AND DEVICE FOR DYNAMIC SEPARATION OF TWO AREAS

Publication
EP 0447314 B1 19930707 (FR)

Application
EP 91400675 A 19910312

Priority
FR 9003255 A 19900314

Abstract (en)
[origin: JPH04222639A] PURPOSE: To provide a method and a device for a dynamic separation of two zones, to reduce gas consumption in the two zones and also to ensure an effective dynamic separation of the two zones. CONSTITUTION: In order to ensure a bi-directional dynamic separation between the two zones 10, 12, a gas curtain constituted by three juxtaposed gas streams or jets 28, 30 and 32 is formed between the zones. The central stream or jet is relatively fast and serves to stabilize two relatively slow lateral streams or jets 30, 32. The latter ensure the relative confinement of the two zones by means of their tongues 30a, 30b and their flow rate is determined in such a way as to supply the relatively fast stream with the gas necessary for its full development. In the case where one of the zones 10 has a reduced volume, an additional gas flow of flow rate can be injected into the zone.

IPC 1-7
F24F 3/16; F24F 9/00

IPC 8 full level
B01L 1/00 (2006.01); **B25J 1/02** (2006.01); **B25J 21/00** (2006.01); **F24F 3/16** (2006.01); **F24F 9/00** (2006.01)

CPC (source: EP US)
F24F 3/163 (2021.01 - EP US); **F24F 9/00** (2013.01 - EP US); **F24F 2009/007** (2013.01 - EP US)

Cited by
FR2740205A1; EP0645588A1; NL9301661A; FR2757933A1; US6251006B1; FR2968384A1; FR2730297A1; FR3093454A1; FR2756910A1; US6334812B2; US5411593A; US5316794A; NL2002108C2; CN101828081A; EP2518417A1; US9551500B2; WO9826226A1; WO9829696A1; WO2009051482A1; WO9624011A1; WO2013128083A1

Designated contracting state (EPC)
AT BE CH DE DK ES GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0447314 A1 19910918; EP 0447314 B1 19930707; AT E91339 T1 19930715; DE 69100151 D1 19930812; DE 69100151 T2 19940127; DK 0447314 T3 19930816; ES 2043442 T3 19931216; FR 2659782 A1 19910920; FR 2659782 B1 19920612; JP 2715345 B2 19980218; JP H04222639 A 19920812; US 5145459 A 19920908

DOCDB simple family (application)
EP 91400675 A 19910312; AT 91400675 T 19910312; DE 69100151 T 19910312; DK 91400675 T 19910312; ES 91400675 T 19910312; FR 9003255 A 19900314; JP 7368891 A 19910314; US 66801991 A 19910312