

Title (en)  
Process and device for dynamic separation of two areas.

Title (de)  
Verfahren und Vorrichtung zum dynamischen Trennen von zwei Zonen.

Title (fr)  
Procédé et dispositif de séparation dynamique de deux zones.

Publication  
**EP 0447314 A1 19910918 (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.

Abstract (fr)  
Afin d'assurer une séparation dynamique bidirectionnelle entre deux zones (10,12), on crée entre ces zones un rideau de gaz composé de trois veines gazeuses juxtaposées (28, 30,32). La veine centrale (28) est une veine relativement rapide, qui a pour fonction de stabiliser les deux veines latérales (30,32), relativement lentes. Ces dernières assurent le confinement relatif de ces deux zones, au moyen de leurs dards (30a,30b), et leur débit est déterminé de façon à fournir à la veine relativement rapide le gaz nécessaire à son plein développement. Dans le cas où l'une (10) des zones est de volume réduit, un courant de gaz d'apport, de faible débit, peut être injecté dans cette zone. <IMAGE>

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)

Citation (search report)  
[AD] EP 0099818 A1 19840201 - COMMISSARIAT ENERGIE ATOMIQUE [FR]

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