

Title (en)  
PROCESS AND DEVICE FOR CONFINING, RETAINING AND SUCKING OFF FUMES, DUST AND APPARATUS FOR PERFORMING THE METHOD

Title (de)  
VERFAHREN ZUM EINGRENZEN, ERFASSEN UND ABSAUGEN VON DUNST, STAUB ,SOWIE EINRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)  
PROCEDE ET DISPOSITIF POUR CONFINER, RETENIR ET ASPIRER DES FUMEEES, DES POUSSIERES ET APPAREIL POUR EMPLOYER CETTE METHODE

Publication  
**EP 0891519 B1 19990929 (DE)**

Application  
**EP 97920575 A 19970402**

Priority

- DE 9700669 W 19970402
- DE 19613513 A 19960404

Abstract (en)  
[origin: US6336451B1] Processes and devices for confining, retaining and sucking off vapors, fumes, dust or similar materials including dispersed or dissolved vapor particles in a fluid medium. In order to separate these pollution particles, a fluid boundary layer or front is generated by diverting a jet against a boundary surface. The curved jet forms a vortex flow retaining the particles and transports them to the suction surfaces. The process and device are especially useful for exhaust hoods in the kitchen field and in the field of clean rooms, furthermore, in those fields, where fluid media with different characteristics are to be separated, confined and suctioned off.

IPC 1-7  
**F24C 15/20**

IPC 8 full level  
**B08B 15/02** (2006.01); **F24C 15/20** (2006.01); **F24F 8/183** (2021.01)

CPC (source: EP US)  
**B08B 15/02** (2013.01 - EP US); **F24C 15/2028** (2013.01 - EP US); **F24F 8/10** (2021.01 - EP US); **F24F 8/183** (2021.01 - EP US); **Y10S 55/36** (2013.01 - EP US)

Cited by  
DE102006055001A1; DE10142787B4

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 6336451 B1 20020108**; AT E185189 T1 19991015; DE 19613513 A1 19971009; DE 59700509 D1 19991104; EP 0891519 A2 19990120; EP 0891519 B1 19990929; ES 2140975 T3 20000301; WO 9738266 A2 19971016; WO 9738266 A3 19971211

DOCDB simple family (application)  
**US 14708499 A 19991202**; AT 97920575 T 19970402; DE 19613513 A 19960404; DE 59700509 T 19970402; DE 9700669 W 19970402; EP 97920575 A 19970402; ES 97920575 T 19970402