

Title (en)
SEPARATION OF SOLID PARTICULATE MATERIALS FROM FLUID STREAMS

Title (de)
ABSCHIEDUNG FESTER TEILCHEN AUS FLUIDSTRÖMEN

Title (fr)
SEPARATION DE MATIERES PARTICULAIRES SOLIDES D'ECOULEMENTS DE FLUIDES

Publication
EP 1027130 A1 20000816 (EN)

Application
EP 98951575 A 19981102

Priority
• GB 9803258 W 19981102
• GB 9723029 A 19971101

Abstract (en)
[origin: WO9922844A1] A method of separating particulate material from a fluid stream comprises rotating in the fluid stream (10) a perforated barrier (1) which permits the fluid to pass through it, the axis of rotation of the barrier projecting into the fluid stream, and the front surface of the perforated barrier being substantially normal to the streamlines in a major part of the incoming flow at the points where the flow meets the barrier, particles (2) colliding with the barrier being in consequence imparted with kinetic energy in a tangential direction so that they travel towards the periphery of the perforated barrier entrained in a diverted portion of the fluid stream (6).

IPC 1-7
B01D 45/14; B04B 5/12; B01J 8/00; F01N 3/02; B01D 33/15

IPC 8 full level
A47L 5/24 (2006.01); **A47L 9/10** (2006.01); **B01D 29/62** (2006.01); **B01D 33/15** (2006.01); **B01D 33/17** (2006.01); **B01D 45/14** (2006.01); **B04B 5/12** (2006.01); **F01N 3/02** (2006.01); **F01N 3/021** (2006.01)

CPC (source: EP)
A47L 5/24 (2013.01); **A47L 9/102** (2013.01); **B01D 33/15** (2013.01); **B01D 33/56** (2013.01); **B01D 33/705** (2013.01); **B01D 45/14** (2013.01); **F01N 3/0214** (2013.01); **F01N 3/0215** (2013.01); **F01N 2290/04** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)
See references of WO 9922844A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)
WO 9922844 A1 19990514; AU 9753498 A 19990524; CA 2303491 A1 19990514; CN 1278745 A 20010103; EP 1027130 A1 20000816; GB 9723029 D0 19980107; JP 2001521811 A 20011113

DOCDB simple family (application)
GB 9803258 W 19981102; AU 9753498 A 19981102; CA 2303491 A 19981102; CN 98810915 A 19981102; EP 98951575 A 19981102; GB 9723029 A 19971101; JP 2000518768 A 19981102