

Title (en)  
Hydrocyclone

Title (de)  
Hydrozyklon

Title (fr)  
Hydrocyclone

Publication  
**EP 0616853 B1 19971022 (DE)**

Application  
**EP 94103498 A 19940308**

Priority  
DE 4309920 A 19930326

Abstract (en)  
[origin: US5466372A] A wet cyclone having a slender body with a truncated cone at an end thereof includes a heavy fraction outlet at an apex of the truncated cone and an immersion tube on the other end of the body. The immersion tube is cylindrical for withdrawal of a light non-gaseous fraction. A diffuser within the immersion tube deflects the flow within the tube for recovery of pressure head. The diffuser is disposed at a distance from the inlet end of the immersion tube of at least about half the inside diameter of the immersion tube.

IPC 1-7  
**B04C 5/12**

IPC 8 full level  
**B04C 5/12** (2006.01); **B04C 5/081** (2006.01); **B04C 5/13** (2006.01)

CPC (source: EP KR US)  
**B04C 5/081** (2013.01 - EP US); **B04C 5/103** (2013.01 - KR); **B04C 5/13** (2013.01 - EP US); **B04C 5/24** (2013.01 - KR);  
**B04C 2005/136** (2013.01 - EP US)

Cited by  
KR101159555B1; FR2874315A1; US7410535B2; US7637991B2; WO2005110608A1

Designated contracting state (EPC)  
AT DE FR GB IT SE

DOCDB simple family (publication)  
**US 5466372 A 19951114**; AT E159434 T1 19971115; BR 9400884 A 19941108; DE 4309920 A1 19930826; DE 59404379 D1 19971127;  
EP 0616853 A1 19940928; EP 0616853 B1 19971022; FI 941416 A0 19940325; FI 941416 A 19940927; JP H07864 A 19950106;  
KR 940021128 A 19941017; TW 285646 B 19960911

DOCDB simple family (application)  
**US 21692194 A 19940323**; AT 94103498 T 19940308; BR 9400884 A 19940323; DE 4309920 A 19930326; DE 59404379 T 19940308;  
EP 94103498 A 19940308; FI 941416 A 19940325; JP 7953294 A 19940325; KR 19940006010 A 19940325; TW 82106926 A 19930826