

Title (en)
VORTEX SYSTEM FOR SEPARATING PARTICLES FROM A LIQUID STREAM

Title (de)
WIRBELSYSTEM ZUM SCHEIDEN VON PARTIKELN AUS EINEM FLÜSSIGKEITSFLUSS

Title (fr)
SYSTEME DE CYCLONE POUR SEPARER DES PARTICULES D'UN FLUX DE LIQUIDE

Publication
EP 0873194 A4 19990929 (EN)

Application
EP 95939142 A 19951114

Priority
• CA 2237672 A 19951114
• US 9514754 W 19951114

Abstract (en)
[origin: WO9718039A1] A vortex system for separating particles of varied size and density from a liquid stream. A particle bearing liquid is introduced tangentially into one end of an elongated cylindrical chamber through an inlet (13) to form a rotating liquid vortex therein. An impeller (18) at one end of the chamber reinforces the vortex flow. A series of tangentially oriented jets (21) introducing a gas further increases the vortex rotational flow. The vortex produces a heavy particle rich outer region, a gas and light particle rich axial region and a cleaned liquid annular region therebetween. The cleaned liquid flows out of the chamber through an outlet (30) at the chamber end opposite the end at which the particle bearing liquid is introduced. The heavy particles in the outer region are removed through outlet (24) and the gas and light particles in the axial region are removed through outlet (26).

IPC 1-7
B03D 1/24

IPC 8 full level
B01D 21/26 (2006.01); **B03D 1/14** (2006.01); **B04C 3/00** (2006.01); **B04C 9/00** (2006.01); **C02F 1/78** (2006.01)

CPC (source: EP)
B01D 21/0021 (2013.01); **B01D 21/267** (2013.01); **B01D 21/302** (2013.01); **B01D 21/34** (2013.01); **B03D 1/028** (2013.01); **B03D 1/1418** (2013.01); **B03D 1/1431** (2013.01); **B03D 1/1475** (2013.01); **B03D 1/1493** (2013.01); **B03D 1/18** (2013.01); **B03D 1/247** (2013.01); **B04C 3/00** (2013.01); **B04C 9/00** (2013.01); **B01D 2221/02** (2013.01); **B03D 1/1412** (2013.01); **B03D 1/1437** (2013.01); **B04C 2009/001** (2013.01); **B04C 2009/002** (2013.01); **B04C 2009/007** (2013.01); **C02F 1/78** (2013.01)

Citation (search report)
• [YA] EP 0642833 A1 19950315 - ESCHER WYSS GMBH [DE]
• [YA] DE 2751460 A1 19790523 - KLOECKNER HUMBOLDT DEUTZ AG
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• [A] DE 2701305 A1 19780720 - KLOECKNER HUMBOLDT DEUTZ AG
• See references of WO 9718039A1

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

DOCDB simple family (publication)
WO 9718039 A1 19970522; AU 4108696 A 19970605; AU 705917 B2 19990603; CA 2237672 A1 19970522; EP 0873194 A1 19981028; EP 0873194 A4 19990929

DOCDB simple family (application)
US 9514754 W 19951114; AU 4108696 A 19951114; CA 2237672 A 19951114; EP 95939142 A 19951114