

Title (en)  
SEPARATING DEVICE FOR SEPARATING MAGNETIC OR MAGNETIZABLE PARTICLES PRESENT IN A SUSPENSION

Title (de)  
TRENNEINRICHTUNG ZUM SEPARIEREN VON IN EINER SUSPENSION ENTHALTENEN MAGNETISCHEN ODER MAGNETISIERBAREN TEILCHEN

Title (fr)  
DISPOSITIF DE SÉPARATION POUR SÉPARER DES PARTICULES MAGNÉTIQUES OU MAGNÉTISABLES CONTENUES DANS UNE SUSPENSION

Publication  
**EP 2667973 A1 20131204 (DE)**

Application  
**EP 12706522 A 20120221**

Priority

- DE 102011004958 A 20110302
- EP 2012052926 W 20120221

Abstract (en)  
[origin: CA2828757A1] Separating device (1) for separating magnetic or magnetizable particles (8) present in a suspension, comprising a separating channel (4) through which the suspension can flow, a ferromagnetic yoke (3) arranged on one side of the separating channel, at least one magnetic field generating means for generating a magnetic deflection field and also a separating element (17) arranged at the outlet of the separating channel (4) for separating the magnetic or magnetizable particles, wherein the magnetic field generating means has a plurality of coils (6, 14, 15) which are arranged along the separating channel and can be controlled by a control device, wherein the control device (9, 13, 16) is formed with alternating current directions for controlling neighbouring coils (6, 14, 15).

IPC 8 full level  
**B03C 1/253** (2006.01); **B03C 1/033** (2006.01); **B03C 1/28** (2006.01)

CPC (source: EP US)  
**B03C 1/0332** (2013.01 - US); **B03C 1/0335** (2013.01 - EP US); **B03C 1/253** (2013.01 - EP US); **B03C 1/288** (2013.01 - EP US); **B03C 2201/18** (2013.01 - EP US); **B03C 2201/22** (2013.01 - EP)

Citation (search report)  
See references of WO 2012116909A1

Cited by  
CN106622645A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102011004958 A1 20120906**; CA 2828757 A1 20120907; CL 2013002525 A1 20140502; CN 103429351 A 20131204; EP 2667973 A1 20131204; PE 20141965 A1 20141127; US 2013327693 A1 20131212; US 9028687 B2 20150512; WO 2012116909 A1 20120907

DOCDB simple family (application)  
**DE 102011004958 A 20110302**; CA 2828757 A 20120221; CL 2013002525 A 20130902; CN 201280011317 A 20120221; EP 12706522 A 20120221; EP 2012052926 W 20120221; PE 2013001989 A 20120221; US 201214002649 A 20120221