Title (en)
METHOD AND APPARATUS FOR SORTING PARTICLES

Title (de)
VERFAHREN UND VORRICHTUNG ZUR PARTIKELSORTIERUNG

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT DE TRIER DES PARTICULES

Publication
EP 1581350 A4 20090923 (EN)

Application
EP 03752432 A 20030916

Priority
• US 0329198 W 20030916
• US 41105802 P 20020916
• US 41114302 P 20020916
• US 32900802 A 20021223

Abstract (en)
[origin: WO2004025266A2] A method and apparatus for sorting particles moving through a closed channel system of capillary size comprises a bubble valve for selectively generating a pressure pulse to separate a particle having a predetermined characteristic from a stream of particles. The particle sorting system may further include a buffer for absorbing the pressure pulse. The particle sorting system may include a plurality of closely coupled sorting modules which are combined to further increase the sorting rate. The particle sorting system may comprise a multi-stage sorting device for serially sorting streams of particles, in order to decrease the error rate.

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B07C 5/00

IPC 8 full level
G01N 33/48 (2006.01); **C12M 1/34** (2006.01); **C12N 5/07** (2010.01); **C12N 5/071** (2010.01); **C12Q 1/00** (2006.01); **C12Q 1/02** (2006.01); **G01N 15/14** (2006.01)

CPC (source: EP KR)
B03B 5/22 (2013.01 - KR); **B07C 5/34** (2013.01 - KR); **G01N 15/1459** (2013.01 - EP KR); **G01N 15/149** (2024.01 - KR); **G01N 33/48** (2013.01 - KR); G01N 15/149 (2024.01 - EP); G01N 2015/1477 (2013.01 - EP KR); G01N 2015/1497 (2013.01 - EP KR)

Citation (search report)
• [X] US 5932100 A 19990803 - YAGER PAUL [US], et al
• [A] US 2002058332 A1 20020516 - QUAKE STEPHEN R [US], et al
• [A] WO 9852691 A1 19981126 - ALBERTA RES COUNCIL [CA], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
WO 2004025266 A2 20040325; **WO 2004025266 A3 20050804**; AU 2003270722 A1 20040430; BR 0314268 A 20050726; CA 2499245 A1 20040325; EP 1581350 A2 20051005; EP 1581350 A4 20090923; JP 2005538727 A 20051222; KR 100990016 B1 20101026; KR 20050047540 A 20050520

DOCDB simple family (application)
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