

Title (en)
Disc separator

Title (de)
Tellerseparator

Title (fr)
Séparateur à disques

Publication
EP 1661626 A1 20060531 (DE)

Application
EP 05111221 A 20051124

Priority
DE 102004057411 A 20041126

Abstract (en)
A disc separator for removing impurities from a fluid, in which the fluid flows inwards from the dirt-collecting space in the stator between the discs on the rotor to a central channel and then to the outlet, the dirt-collecting space being divided axially by choke points into at least two sub-spaces from which the fluid flows in parallel streams as above. A disc separator for removing impurities from a fluid, comprising a rotor (2) with several axially-stacked discs (5) and a stator (3) with a dirt-collecting space (6) enclosing the rotor. The fluid path (7) proceeds from an inlet (8) to the collecting space (6), radially inwards between the discs (5) to a central run-off channel (9) and then out through an outlet (10); the collecting space (6) is divided axially by means of at least one choke point (11) into at least two sub-spaces (6a, 6b, 6c) from which the fluid flows in parallel streams between the discs (5) to the run-off channel (9). An independent claim is also included for a lubricant circuit for an internal combustion engine, especially in a motor vehicle, in which a single separator (1) as above is used both for main stream cleaning and side stream cleaning.

IPC 8 full level
B04B 1/08 (2006.01)

CPC (source: EP)
B04B 5/005 (2013.01); **B04B 5/12** (2013.01); **B04B 7/02** (2013.01); **B04B 2005/125** (2013.01); **F01M 2001/1035** (2013.01)

Citation (applicant)
• RU 2158188 C2 20001027 - BIOTEKHNOLOGII, et al
• US 3482771 A 19691209 - THYLEFORS HENRIC WILHELM
• US 3117928 A 19640114 - WILHELM THYLEFORS HENRIC

Citation (search report)
• [X] RU 2158188 C2 20001027 - BIOTEKHNOLOGII, et al
• [X] US 3482771 A 19691209 - THYLEFORS HENRIC WILHELM
• [X] US 3117928 A 19640114 - WILHELM THYLEFORS HENRIC
• [A] US 3741466 A 19730626 - WEILAND C
• [A] DE 2938628 A1 19810326 - WESTFALIA SEPARATOR AG
• [A] US 2261724 A 19411104 - HOLM CURT F
• [A] US 2487364 A 19491108 - WERNER ORTENBLAD STURE JOHN

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US10675640B2; CN110355003A; CN104284732A; CN110496711A; US9849467B2; WO2009147008A1; EP2944391A1; CN106457264A; US2017072409A1; JP2017515671A; RU2665661C2; WO2015172990A1

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