

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)

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**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  
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