

Title (en)

Blowby gas valve with integrated cyclone separator

Title (de)

Kurbelgehäuseentlüftungsventil mit integriertem Zyklonabschneider

Title (fr)

Soupape pour un dispositif de gaz du carter ayant un separateur à cyclone intégré

Publication

**EP 1447531 B1 20061213 (DE)**

Application

**EP 04000598 A 20040114**

Priority

DE 10301028 A 20030114

Abstract (en)

[origin: EP1447531A1] Crank housing ventilation valve with an integrated cyclone separator (2) comprises a valve chamber (30) defined on one side by a membrane (54) and on the opposite-lying side by a separating wall (32) separating the valve chamber from the cyclone separator. The cyclone separator has a gas inlet (6) connected to the crank housing, a gas outlet (42) connected via a guide channel (40) to the valve chamber and near the gas outlet an oil outlet (8) connected to an oil return. An intake channel connected at one end to a vacuum source passes through the cyclone separator and protrudes with its other end forming a valve seat (24) into the valve chamber. The valve seat interacts with the membrane, which is spring-loaded in the opening direction.

IPC 8 full level

**F01M 13/02** (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP)

**F01M 13/022** (2013.01); **F01M 13/04** (2013.01); **F01M 2013/0427** (2013.01)

Cited by

DE102004033677B4; CN108167046A; WO2007020084A3

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