

Title (en)

Shut-off valve for an engine breather system

Title (de)

Sperrventil für eine Entlüftungsvorrichtung einer Brennkraftmaschine

Title (fr)

Soupape de coupage pour le dispositif de degasage d'un moteur à combustion interne

Publication

EP 1391590 B1 20060920 (EN)

Application

EP 02255865 A 20020822

Priority

EP 02255865 A 20020822

Abstract (en)

[origin: EP1391590A1] If an internal combustion engine is mounted in a vehicle or machine which is operated at an extreme inclination or rolls over, there is a risk that substantial quantities of oil can flow under gravity through the engine breather system and enter the engine induction system. This can cause the engine to run in an ungoverned condition and can result in damage to the engine as well as undesirable engine emissions. The invention provides a breather shut-off valve including a valve chamber and a float movably held within the valve chamber. The valve chamber has a floor, a side wall provided with an inlet aperture, and a roof provided with an exit aperture. The float is adapted to move between a first position in which the exit aperture is open when the valve chamber has no oil or other liquid therein and a second floating position in which the exit aperture is closed by the float when the valve chamber has oil or other liquid therein. The breather shut-off valve is compact in height and can be used with a known pressure regulation valve. <IMAGE>

IPC 8 full level

F01M 13/00 (2006.01); **F01M 13/02** (2006.01)

CPC (source: EP)

F01M 13/0011 (2013.01); **F01M 13/022** (2013.01)

Cited by

GB2527556A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1391590 A1 20040225; **EP 1391590 B1 20060920**; DE 60214845 D1 20061102; DE 60214845 T2 20070419

DOCDB simple family (application)

EP 02255865 A 20020822; DE 60214845 T 20020822