Title (en)
  BREATHER DEVICE FOR ENGINE

Title (de)
  ENTLÜFTERVORRICHTUNG FÜR EINEN MOTOR

Title (fr)
  DISPOSITIF FORMANT RENIFLARD POUR MOTEUR

Publication
  EP 2163738 A4 20100804 (EN)

Application
  EP 08790973 A 20080708

Priority
  • JP 2008062336 W 20080708
  • JP 2007179244 A 20070709

Abstract (en)
  [origin: EP2163738A1] In a breather device for an engine, since a predetermined gap (±) is formed between an outer surface of a breather chamber (26) disposed in the interior of a head cover (13) and an inner surface of the head cover (13), even if the outside temperature decreases, the gap (±) functions as an insulating space, thereby preventing blow-by gas from freezing in the interior of the breather chamber (26). Moreover, since a blow-by gas inlet (30) formed in a wall face of the breather chamber (26) is made to open at a position that faces the inner surface of the head cover (13), compared with a case in which the blow-by gas inlet (30) is made to open in a lower face of the breather chamber (26), not only can the degree of freedom for the position of the blow-by gas inlet (30) be increased, but it is also possible for an effect in separating oil to be exhibited by means of the gap (±) between the breather chamber (26) and the head cover (13), thereby preventing oil from entering the breather chamber (26).

IPC 8 full level
  F01M 13/04 (2006.01); **F01M 13/02** (2006.01)

CPC (source: EP)
  F01M 13/022 (2013.01); **F01M 13/0416** (2013.01); F01M 2013/0433 (2013.01); F01M 2013/0455 (2013.01); F01M 2013/0472 (2013.01)

Citation (search report)
  • [X] JP S59167906 U 19841110
  • [X] JP S6310218 U 19880123
  • [XA] US 2002046744 A1 20020425 - SUGANAMI TOMOJI [JP], et al
  • [XP] JP 2007285261 A 20071101 - TOYOTA IND CORP
  • [AD] JP S62193113 U 19871208
  • See references of WO 2009008427A1

Cited by
  FR3018555A1; EP2336509A1; US10914211B2

Designated contracting state (EPC)
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