

Title (en)

CYLINDER HEAD WITH LIQUID-COOLED VALVE SEAT

Title (de)

ZYLINDERKOPF MIT FLÜSSIGKEITSGEKÜHLTEM VENTILSITZRING

Title (fr)

CULASSE AVEC SIEGE DE SOUPAPE RAPPORTE REFROIDI PAR LIQUIDE

Publication

EP 1386062 A1 20040204 (DE)

Application

EP 02735342 A 20020507

Priority

- DE 10122581 A 20010510
- EP 0204997 W 20020507

Abstract (en)

[origin: WO02097245A1] The invention relates to a valve seat ring, which is easy to produce (2). The cooled valve seat ring comprises a cooling channel (4) which consists of a thin sheet of steel.

IPC 1-7

F01L 3/22; **F01P 3/14**

IPC 8 full level

F01L 3/20 (2006.01); **F01L 3/22** (2006.01); **F01P 3/14** (2006.01)

CPC (source: EP US)

F01L 3/12 (2013.01 - EP US); **F01L 3/20** (2013.01 - EP US); **F01P 3/14** (2013.01 - EP US); **F01L 2303/00** (2020.05 - EP US)

Citation (search report)

See references of WO 02097245A1

DOCDB simple family (publication)

WO 02097245 A1 20021205; DE 10122581 A1 20030109; DE 50203681 D1 20050825; EP 1386062 A1 20040204; EP 1386062 B1 20050720; US 2004182332 A1 20040923; US 7063051 B2 20060620

DOCDB simple family (application)

EP 0204997 W 20020507; DE 10122581 A 20010510; DE 50203681 T 20020507; EP 02735342 A 20020507; US 47730003 A 20031110