

Title (en)
SEALING DEVICE FOR CYLINDER LINER

Publication
EP 0538628 A3 19930707 (DE)

Application
EP 92116078 A 19920921

Priority
US 76578991 A 19910926

Abstract (en)
[origin: US5125375A] An internal combustion engine has a cylinder head, a cylinder block and a cylinder liner mounted in a bore in the block. The liner has a hollow cylindrical body and an annular sealing collar projecting radially outwardly from the body. The collar a sealing surface which faces generally towards the cylinder head. A cylinder head gasket the collar sealing surface and a corresponding head sealing surface on the cylinder head to preventing combustion gasses from escaping from the piston bore. The collar sealing surface is frustoconical and extends uniformly from a radially inner edge to a radially outer edge, the radially inner edge being farther from the outer sealing surface and the radially outer edge being closer to the other sealing surface. The frustoconical sealing surface resists radial expansion of the gasket and produces a wedging action which increases the sealing engagement of the gasket with the head and collar sealing surfaces as the gasket expands radially.

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CPC (source: EP US)
F02F 11/002 (2013.01 - EP US); **F02F 11/005** (2013.01 - EP US); **F02F 2001/104** (2013.01 - EP US)

Citation (search report)
• [X] CH 368968 A 19630430 - SAURER AG ADOLPH [CH]
• [X] DE 8903444 U1 19890622
• [A] EP 0230804 A2 19870805 - NIHON METAL GASKET [JP]

Cited by
WO2009152814A1; DE102008029543B4; DE102008029545B4; DE102008011600B4; WO2009152815A1; DE102008029543A1;
DE102008011600A1; DE102008029545A1

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