

Title (en)
SELF LOCKING VALVE SEAT INSERT

Publication
EP 0014285 B1 19820908 (EN)

Application
EP 79302609 A 19791116

Priority
US 952779 A 19790205

Abstract (en)
[origin: EP0014285A1] A valve seat insert for installation in cylinder heads of internal combustion engines which includes a pilot flange, an annular groove and a locking flange by which the valve seat insert is locked into the cylinder head.

IPC 1-7
F01L 3/22

IPC 8 full level
F01L 3/22 (2006.01); **F16K 1/46** (2006.01)

CPC (source: EP)
F01L 3/22 (2013.01)

Cited by
EP2162651A4; CN112943404A; CN1293287C; CN102893067A; US8636264B2; US9022353B2; WO02081873A1

Designated contracting state (EPC)
DE FR GB IT NL SE

DOCDB simple family (publication)
EP 0014285 A1 19800820; EP 0014285 B1 19820908; BR 8000501 A 19801014; CA 1143234 A 19830322; DE 2963649 D1 19821028; DK 46880 A 19800806; JP S55107012 A 19800816; JP S5815603 B2 19830326

DOCDB simple family (application)
EP 79302609 A 19791116; BR 8000501 A 19800125; CA 340476 A 19791123; DE 2963649 T 19791116; DK 46880 A 19800204; JP 17388279 A 19791227