

Title (en)
ASSEMBLY METHOD FOR VALVE STEM SEALS

Publication
EP 0285791 A3 19890301 (DE)

Application
EP 88102861 A 19880226

Priority
DE 3711436 A 19870404

Abstract (en)
[origin: US4826180A] A valve stem sealing assembly includes a valve spring, a valve spring retainer, and a valve spring seal which is releasably connected either directly or indirectly to the valve spring retainer. Such a valve stem sealing assembly can be installed as a unit during mass production of engines. In one embodiment the valve spring retainer is provided with a sleeve which releasably supports the valve stem seal. Another embodiment includes a protection element on which the valve spring rests to keep it from digging into the metal of the engine. Both the protection element and the valve spring retainer are provided with sleeves in the second embodiment, and these sleeves are releasably connected. The valve stem seal is lodged in the sleeve of the protection element. In both embodiments the releasable connection, which may be provided by force-fitting one element into another, is released after installation of the assembly.

IPC 1-7
F01L 3/08

IPC 8 full level
F01L 3/08 (2006.01)

CPC (source: EP US)
F01L 3/08 (2013.01 - EP US)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN, Band 5, Nr. 135 (M-85)[807], 27. August 1981; & JP-A-56 069 412 (MITSUBISHI JIDOSHA KOGYO K.K.) 10-06-1981

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