

Title (en)  
Compressor for the production of oil free air

Title (de)  
Kompressor zur Erzeugung ölfreier Druckluft

Title (fr)  
Compresseur pour la production d'air sans lubrifiant

Publication  
**EP 0994252 A3 20001108 (DE)**

Application  
**EP 99119190 A 19991007**

Priority  
DE 19847159 A 19981013

Abstract (en)  
[origin: EP0994252A2] The compressor has a drive mechanism driven by a drive shaft (3) with a swash plate (5) and lubricated by oil and connected via piston rods to a piston operating reciprocally wrt. an oil-cooled cylinder head (7). The oil used to cool the pressurized side of the compressor completely sealed wrt. the compressed air is also used for drive side lubrication. The oil for cooling and lubrication is a permanent, encapsulated oil quantity circulated within the compressor housing. The interior of the housing is divided by a non-return valve (39,41) opening in the oil circulation direction into the pressure region contg. the cylinder head and piston and the drive region contg. the drive shaft and swash plate. A pump feeds the oil between the pressure and drive regions according to the flow direction defined by the non-return valve.

IPC 1-7  
**F04B 27/10**; F04B 39/06

IPC 8 full level  
**F04B 27/10** (2006.01)

CPC (source: EP US)  
**F04B 27/109** (2013.01 - EP US)

Citation (search report)

- [DA] DE 19706066 A1 19971120 - UNGER HANS DIPL ING [DE]
- [A] US 3557664 A 19710126 - AKAIKE SEIJI, et al
- [A] US 3458114 A 19690729 - CATTERSON ROBERT K

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