

Title (en)
LUBRICANT OIL DUCT

Publication
EP 0299986 B1 19900711 (DE)

Application
EP 87907575 A 19871120

Priority
DE 3703047 A 19870203

Abstract (en)
[origin: WO8805860A1] A lubricant oil duct (12) for conveying lubricant oil to spray nozzles (2) for cooling the pistons of an internal combustion engine. The spray nozzles (2) are linked to holders (3) fixed to transverse walls (4) in the crankcase (5). Passages (7) formed in the spray nozzle holders (3) open into through-holes (9) in the transverse walls (4). Plug-in pipes (10) arranged between the passages (7) of mutually opposite spray nozzle holders (3) fixed to different transverse walls (4) complete the lubricant oil ducts. A simple and economic lubricant oil duct is thus obtained. The fact that the components of the lubricant oil duct are finished before being assembled is particularly advantageous, since impurities due to finishing residues can be eliminated before assembly. The lubricant oil duct occupies a small space in the crankcase (5) and can be dismantled for maintenance purposes.

IPC 1-7
F01M 1/08; **F01P 3/08**

IPC 8 full level
F01M 1/08 (2006.01); **F01P 3/08** (2006.01)

CPC (source: EP US)
F01M 1/08 (2013.01 - EP US); **F01P 3/08** (2013.01 - EP US)

Citation (opposition)
Opponent : Klöckner-Humboldt-Deutz Aktiengesellschaft
• DE 844990 C 19520728 - MAYBACH KARL DR-ING E H
• DIE KONSTRUKTIONSZEICHNUNGEN 3.604.0.110.931.6 DES MOTORS TBD 604BL6 UND 3.602.0.465.704.7 DES MOTORS TBD 602K DER MOTOREN-WERKE MANNHEIM AG

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
DE 3703047 C1 19880623; DE 3763669 D1 19900816; EP 0299986 A1 19890125; EP 0299986 B1 19900711; US 4869211 A 19890926; WO 8805860 A1 19880811

DOCDB simple family (application)
DE 3703047 A 19870203; DE 3763669 T 19871120; DE 8700534 W 19871120; EP 87907575 A 19871120; US 23622988 A 19880706