

Title (en)  
DIESEL INTERNAL COMBUSTION ENGINE

Title (de)  
DIESELBRENNKRAFTMASCHINE

Title (fr)  
MOTEUR DIESEL À COMBUSTION INTERNE

Publication  
**EP 3670882 A1 20200624 (EN)**

Application  
**EP 19217077 A 20191217**

Priority  
IT 201800020110 A 20181218

Abstract (en)  
A Diesel combustion engine includes at least one cylinder (C) with a respective piston (P) and a respective fire ring (FR) inserted in a stepped housing (FRH) defined in a cylinder liner (CL) so as to surround a respective combustion chamber (CC); an outer surface (OS) of the fire ring (FR), intended to contact the stepped housing (FRH), is shaped so as to include at least one protruding portion shaped as a tip or a ridge and to reduce a thermal exchange between the fire ring and the cylinder liner; an upper edge of the fire ring consists of a cutting edge, in contact with a cylinder head (H) and defining a sealing effect between the fire ring (FR) and the cylinder head (H).

IPC 8 full level  
**F02F 1/00** (2006.01)

CPC (source: EP)  
**F02F 1/004** (2013.01); **F02F 2001/006** (2013.01)

Citation (applicant)  
IT 201800020110 A 20181218

Citation (search report)  
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• [Y] DE 3038235 A1 19820506 - MAHLE GMBH [DE]  
• [Y] WO 2015134162 A1 20150911 - CUMMINS INC [US]  
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• [A] WO 2016054173 A1 20160407 - CATERPILLAR INC [US]

Cited by  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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