

Title (en)

MULTIPART COOLED PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

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Title (fr)

PISTON REFROIDI A PLUSIEURS PARTIES POUR UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1583896 A1 20051012 (DE)**

Application

**EP 03770881 A 20030924**

Priority

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- DE 10257022 A 20021206

Abstract (en)

[origin: US6729291B1] A multipart cooled piston for an internal combustion engine comprises an upper part and a lower part of the piston. The two parts are screwed together via a threaded bolt that is arranged on the upper part of the piston, and a threaded bore that is drilled into the lower part of the piston. The threaded bore is arranged in an area of the lower part of the piston that is thin-walled to such a degree that it is deformed like a plate spring as the two parts of the piston are screwed together, so that no other safety means such as a lock nut are required for securing the assembled piston.

IPC 1-7

**F02F 3/00**

IPC 8 full level

**F02F 3/00** (2006.01); **F02F 3/22** (2006.01)

CPC (source: EP KR US)

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See references of WO 2004053319A1

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DE FR GB IT

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**US 6729291 B1 20040504**; BR 0310142 B1 20130219; BR 0317030 A 20051025; CN 100339584 C 20070926; CN 1714232 A 20051228; DE 10257022 A1 20040617; DE 50303408 D1 20060622; EP 1583896 A1 20051012; EP 1583896 B1 20060517; HK 1084169 A1 20060721; JP 2006509152 A 20060316; JP 4414894 B2 20100210; KR 101067577 B1 20110927; KR 20050084180 A 20050826; RU 2005121255 A 20060610; RU 2313679 C2 20071227; WO 2004053319 A1 20040624

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