

Title (en)
FREE PISTON DEVICE

Title (de)
FREIKOLBENVORRICHTUNG

Title (fr)
DISPOSITIF À PISTON LIBRE

Publication
EP 3458681 A1 20190327 (DE)

Application
EP 17723377 A 20170512

Priority
• DE 102016109046 A 20160517
• EP 2017061516 W 20170512

Abstract (en)
[origin: WO2017198578A1] The invention relates to a free piston device comprising a piston (42) which is arranged in a movable manner back and forth along an axis (26). The piston receiving area (24) comprises a combustion chamber (50) which is delimited by a wall (32). The free piston device (10) comprises a cooling device (74) which is arranged on the piston receiving area (24) for cooling the wall (32). The cooling device (74) has a cooling channel (76) which is arranged radially on the exterior of the wall (32) for a cooling medium in order to improve the cooling function, said cooling channel having a first cooling region (78) and a second cooling region (80) at axially opposite sides of an outlet opening (36). The cooling channel (76) additionally has at least one third cooling region (82) which fluidically connects the first cooling region (78) and the second cooling region (80) along the axial extension of the outlet chamber (92) and is positioned radially outside of the outlet chamber (92) at least in some sections.

IPC 8 full level
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Citation (search report)
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