

Title (en)
COMBUSTION ENGINE

Title (de)
VERBRENNUNGSMOTOR

Title (fr)
MOTEUR À COMBUSTION

Publication
EP 3916199 A4 20221109 (EN)

Application
EP 19911892 A 20191108

Priority
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Abstract (en)
[origin: EP3916199A1] The present invention relates to a structural arrangement for a stationary internal combustion engine for machines or vehicles (universal), which can use various types of fuel. More specifically, the present invention relates to an internal combustion engine with improved combustion efficiency, improved thermodynamic efficiency, reduced dimensions, an improved power-to-weight ratio that exceeds that of aircraft turbine engines using the Brayton thermodynamic cycle, and up to three times less fuel consumption and gas emissions into the environment.

IPC 8 full level
F01C 1/344 (2006.01); **F01C 11/00** (2006.01); **F01C 21/08** (2006.01)

CPC (source: EP IL KR)
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Citation (search report)
• [XY] US 3955540 A 19760511 - BLANCHARD JAMES G
• [X] US 4915071 A 19900410 - HANSEN CRAIG N [US]
• [X] US 3951112 A 19760420 - HUNTER LEE
• [Y] WO 9904141 A1 19990128 - BRIEN THEA JOHANNA O [NZ], et al
• See references of WO 2020150797A1

Designated contracting state (EPC)
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DOCDB simple family (application)
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