

Title (en)  
POSITIVE DISPLACEMENT MACHINE WITH OSCILLATING AND ROTARY PISTONS

Title (de)  
VERDRÄNGERMASCHINE MIT OSZILLIERENDEN UND ROTIERENDEN KOLBEN

Title (fr)  
MACHINE À DÉPLACEMENT POSITIF À PISTONS ROTATIFS ET OSCILLANTS

Publication  
**EP 3587732 A1 20200101 (EN)**

Application  
**EP 18180423 A 20180628**

Priority  
EP 18180423 A 20180628

Abstract (en)  
Positive displacement machine with oscillating and rotary pistons characterized by comprising- a fixed stator (2)- a rotor (12) coaxial to the stator- at least one intake port (48) housed in the stator and which puts the rotor in communication with the external environment- at least one exhaust port (46) housed in the stator and which puts the rotor in communication with the external environment- a crankshaft (36) coaxial to the stator and to the rotor- bearings integral with the rotor (12) and supporting the crankshaft (36)- bearings integral with the stator (2) and supporting the rotor (12)- an inverter of the rotation motion which engages the crankshaft (36) and the rotor (12) to have opposite and synchronous rotations- at least two shaped inserts (17), integral with the rotor that delimit a chamber (20)- at least one oscillating body (22) inside the chamber (20), this oscillating body (22) having one of the end in correspondence of the first shaped insert (17) of the rotor (12), and being integral with a pin (24) which in turn is articulated to the annular flanges (14) of the rotor (12) and having furthermore articulated, in a median position, by means of a gudgeon pin (26) at the small end (28) of a connecting rod (30) whose the big end (32) is articulated to the crank (34) of the crankshaft (36).

IPC 8 full level  
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CPC (source: EP)  
**F01C 1/44** (2013.01); **F01C 17/06** (2013.01)

Citation (applicant)  
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• US 3373723 A 19680319 - BLOSSER DONALD N  
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• US 1715490 A 19290604 - BALLERSTEDT WILLIAM D

Citation (search report)  
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• [A] FR 2738285 A1 19970307 - PARIS LAURENT GUY [FR]  
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