

Title (en)

COMPRESSED-AIR ENGINE WITH AN INTEGRATED ACTIVE CHAMBER AND WITH ACTIVE INTAKE DISTRIBUTION

Title (de)

DRUCKLUFTMOTOR MIT INTEGRIERTER AKTIVER KAMMER UND MIT AKTIVER ANSAUGVERTEILUNG

Title (fr)

MOTEUR À AIR COMPRIMÉ À CHAMBRE ACTIVE INCLUSE ET À DISTRIBUTION ACTIVE À L'ADMISSION

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Application

EP 15726034 A 20150518

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Abstract (en)

[origin: WO2015177076A2] The invention proposes an active chamber engine, comprising at least one piston (2) slidingly mounted in a cylinder (1) and operating according to a three-phase thermodynamic cycle comprising an isobaric and isothermal transfer, a polytropic expansion with work and an exhaust at ambient pressure, which is preferably supplied with compressed air contained in a high-pressure storage tank (12), in which the volume of the cylinder (1) swept by the piston is divided into an active chamber (CA) and an expansion chamber (CD), and in which the compressed air is used to move the intake valve (9) in order to open and then close the intake duct, making it possible to supply the active chamber of the engine, the compressed air having been used for said actions then being reused in the engine to produce additional work.

IPC 8 full level

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