

Title (en)
PISTON MACHINE AND METHOD FOR THE OPERATION THEREOF

Title (de)
KOLBENMASCHINE UND VERFAHREN ZU DEREN BETRIEB

Title (fr)
MACHINE À PISTONS ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication
EP 2986837 B1 20160831 (DE)

Application
EP 14723684 A 20140416

Priority
• AT 502612013 A 20130416
• AT 2014050094 W 20140416

Abstract (en)
[origin: WO2014169311A2] A piston machine (1) for converting heat into work or for heating or cooling by the application of work, having at least one chamber arrangement (8), which comprises at least two chambers (2, 3, 4) connected by at least one connecting duct (9, 10), wherein at least two of the chambers (2, 4) are substantially thermally insulated against one another, and having pistons (5, 6, 7) which are impermeable to a working medium and are movably arranged in the individual chambers (2, 3, 4) to vary a partial working volume defined by the chamber (2, 3, 4) and the piston (5, 6, 7), wherein at least one of the chambers (2, 4) comprises thermal transfer surfaces (34, 45) to increase the surface area thereof, wherein the pistons (5, 6, 7), or elements connected therewith, are connected to actuating elements for defining motion profiles for each of the pistons (5, 6, 7), and wherein the actuating elements are designed to define at least two different motion profiles for the pistons (5, 6, 7) in the chamber arrangement (8).

IPC 8 full level
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