

Title (en)

FLUID WORKING MACHINE WITH VALVE ACTUATION

Title (de)

FLUID-ARBEITSMASCHINE MIT VENTILBETÄTIGUNG

Title (fr)

MACHINE À FLUIDE DE TRAVAIL AVEC ACTIONNEMENT DE SOUPAPE

Publication

**EP 2839155 A1 20150225 (EN)**

Application

**EP 12706116 A 20120209**

Priority

JP 2012000864 W 20120209

Abstract (en)

[origin: WO2013118180A1] A fluid working machine has at least one working chamber of cyclically varying volume and low and high pressure valves to regulate the flow of working fluid into and out of the working chamber, from low and high pressure manifolds. The low and high pressure valves are actuated by a shared electronically controlled valve actuator which, when actuated, applies forces to the low and high pressure valve members to open and/or close the respective valves. The low and high pressure valve members are independently moveable and, although the low pressure valve member typically begins to move quickly in response to a shared valve control signal, the high pressure valve member typically moves only after a change in the pressure within the working chamber. The shared electronically controlled valve actuator can be a solenoid within a magnetic circuit which directs magnetic flux through both low pressure and high pressure valve armatures which are connected to the respective valve members.

IPC 8 full level

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CPC (source: EP)

**F04B 39/10** (2013.01); **F04B 49/065** (2013.01)

Citation (search report)

See references of WO 2013118180A1

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Designated extension state (EPC)

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