

Title (en)

RECIPROCATING-PISTON MACHINE, COMPRESSED AIR SUPPLY SYSTEM, VEHICLE AND METHOD FOR PRODUCING A RECIPROCATING-PISTON MACHINE

Title (de)

HUBKOLBENMASCHINE, DRUCKLUFTVERSORGUNGSANLAGE, FAHRZEUG UND VERFAHREN ZUR HERSTELLUNG EINER HUBKOLBENMASCHINE

Title (fr)

MACHINE À PISTONS ALTERNATIFS, INSTALLATION D'ALIMENTATION EN AIR COMPRIMÉ, VÉHICULE ET PROCÉDÉ POUR LA FABRICATION D'UNE MACHINE À PISTONS ALTERNATIFS

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Application

EP 19795494 A 20191022

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Abstract (en)

[origin: WO2020099073A1] The invention relates to a reciprocating-piston machine (400), in particular a 2-stage or multi-stage piston compressor (400), comprising a first connecting rod (P1), a second connecting rod (P2) and a coupling element (L2B). The first connecting rod (P1) has a connecting rod eye (P1A2) and is designed to deflect a first piston (K1). The second connecting rod (P2) has at least one further connecting rod eye (P2A2, P2A2') and is designed to deflect a second piston (K2). The coupling element (L2B) extends through the connecting rod eye (P1A2) and the at least one further connecting rod eye (P2A2, P2A2'). The first connecting rod (P1) and the second connecting rod (P2) are rotatably movable relative to each other around the coupling element (L2B). A coupling bearing element (L2) is arranged between the coupling element (L2B) and a connecting rod eye inner surface (PA210) of the connecting rod eye (P1A2). An elastically damping damping element (L2E) is arranged in a damping ring space (DR) between the coupling bearing element (L2) and the coupling rod eye inner surface (PA210) of the coupling rod eye (P1A2). The damping element (L2E) fills the damping ring space (DR) in such a way that a spherical articulation producing a form fit is produced between the coupling bearing element (L2) and the connecting rod inner surface (PA210) of the coupling rod eye (P1A2).

IPC 8 full level

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