

Title (en)
PISTON, COMPRESSOR, COMPRESSED-AIR SUPPLY SYSTEM, VEHICLE, AND METHOD FOR OPERATING A COMPRESSED-AIR SUPPLY SYSTEM

Title (de)
KOLBEN, VERDICHTER, DRUCKLUFTVERSORGUNGSANLAGE, FAHRZEUG UND VERFAHREN ZUM BETREIBEN EINER DRUCKLUFTVERSORGUNGSANLAGE

Title (fr)
PISTON, COMPRESSEUR, SYSTÈME D'ALIMENTATION EN AIR COMPRIMÉ, VÉHICULE ET PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME D'ALIMENTATION EN AIR COMPRIMÉ

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Abstract (en)
[origin: WO202223322A1] The invention relates to a piston (1112) for a compressor (1100), wherein the piston (1112) has: -a first end side (113), which can be subjected to pressure and is intended to be directed, during operation, towards a first compression volume (104) of the compressor (1100), and a second end side (115), which can be subjected to pressure, is located opposite the first end side (113) and is intended to be directed, during operation, towards a second compression volume (106) of the compressor (1100), wherein the first compression volume (104) and the second compression volume (106) are connected to one another via a connecting line (122), which can be subjected to pressure, and - the first end side (113) is in the form of a complete, full-surface-area side (114) and the second end side (115) is in the form of an annular, stepped side (116), wherein, on the second end side (115), the piston (1112) bears a sealing arrangement (1001, 1002, 1003, 1004, 1005, 1006) or at least one seal (1138), which seals the first compression volume (104) in relation to the second compression volume (106). According to the invention, provision is made - for an annular sealing body (1139), in the form of a sealing sleeve (1021, 1022, 1023, 1024, 1025, 1026) of the sealing arrangement (1001, 1002, 1003, 1004, 1005, 1006), to be retained in a pressure-tight manner, by way of a profile base, on the stepped side (116), that is to say between a step-side piston ring (1011, 1012, 1013, 1014, 1015, 1016), which is arranged on the second end side (115), and a compression-volume-side retaining ring (1031, 1032, 1033, 1034, 1035, 1036).

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