

Title (en)

COMBINED PISTON-EXPANDER COMPRESSOR

Title (de)

KOMBINIERTER KOLBEN-EXPANDER-VERDICHTER

Title (fr)

DISPOSITIF COMBINE D'EXPANSION-COMPRESSION A PISTONS

Publication

EP 1812759 B1 20091118 (DE)

Application

EP 05815530 A 20051029

Priority

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- DE 102004056298 A 20041118

Abstract (en)

[origin: US8220381B2] The invention concerns a combined piston-expander compressor comprising a plurality of pistons (3, 14) which are mechanically coupled together by a piston rod (4), as well as a main slide (6), an auxiliary slide (7) and a control valve (9) for control purposes, characterized in that the main slide (6) is formed from a plurality of slide elements that are not interconnected, two outer slide bodies (6a, 6b) being provided. Control pistons (6c) with control edges and simple slide elements (6d) are arranged in a row between the outer slide elements, in the form of a small piston (6a) and a large piston (6b), such that a differential pressure acting on the outer slide elements (6a, 6b) automatically and mechanically holds together the main slide (6).

IPC 8 full level

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CPC (source: EP US)

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