

Title (en)
MULTI-STAGE DIAPHRAGM-TYPE COMPRESSOR

Title (de)
MEHRSTUFIGER MEMBRANVERDICHTER

Title (fr)
COMPRESSEUR A DIAPHRAGME A PLUSIEURS ETAGES

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Application
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Abstract (en)
[origin: WO0127475A1] The invention relates to a multi-stage diaphragm-type compressor (100) and to a method for the multi-stage compression of gases. At least two piston-cylinder units arranged at equal angular intervals from each other around the axis of rotation of a camshaft or eccentric shaft (18). The cylinders (7) are connected to a sump (14) containing a liquid, so that they can be filled with a liquid via supply lines (24, 25, 26, 27) in which return valves (28) are provided. The cylinders (7) are also separated from chambers (8) by a membrane (5) to which a gas inlet and a gas outlet (10) with a return valve, respectively are joined. The individual compressor stages are each formed by a piston-cylinder unit with a membrane (5) and a chamber.

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