

Title (en)

Compression device, especially for filling a tank under pressure.

Title (de)

VerdichtungsVorrichtung, insbesondere zur Druckfüllung eines Behälters.

Title (fr)

Dispositif de compression, en particulier pour le remplissage sous pression d'un réservoir.

Publication

EP 0461943 A2 19911218 (FR)

Application

EP 91401216 A 19910507

Priority

FR 9006043 A 19900515

Abstract (en)

The gas compression device comprises a motor (1), a piston (2) capable of moving linearly in a pump body, a means of transmission (T) between the motor (1) and the piston (2) capable of converting the rotary movement supplied by the motor (1) into a reciprocating translational movement of the piston (2). Means of varying the speed, comprising a cam (12) are provided for imparting a different speed to the piston (2) of the compressor according to the resistance offered to the motor (1) during a complete admission-compression cycle, in such a way that the load moment is essentially constant and the motor (1) functions at its maximum torque and therefore at its maximum efficiency. The profile of the cam (12) is determined so as to ensure an essentially isothermic compression of the gas. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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