

Title (en)

Rotary machine with conjugated profiles in continuous contact

Title (de)

Umlaufmaschine mit conjugierten Profilen in kontinuierlicher Berührung

Title (fr)

Machine rotative avec profils conjugués en contact continu

Publication

EP 0578853 B1 19960925 (DE)

Application

EP 92112084 A 19920715

Priority

EP 92112084 A 19920715

Abstract (en)

[origin: EP0578853A1] A rotary machine with conjugated profiles in continuous contact comprises the following elements: a stator (2), the first part of which is connected to an intake line (16) and the second part of which to an outlet line (18) for a medium; two adjacent and synchronously contra-rotating rotors (11, 12) for delivering the medium from the intake line (16) to the outlet line (18); the rotors (11, 12) have profiles (E1, E2, E3, E4, T1, T2, T3, T4), the design shape of which is selected so that the said profiles are in continuous contact in the course of the rotation of the rotors (11, 12), in order to define chambers (28, 28a, 28b, 28c, 30, 30a, 30b, 30c, 30d) of variable volume, the chambers driving and compressing the medium and being expanded as the rotors rotate; a secondary line (19) for the connection of one of the chambers (31), in which an irregular pressure value for the operation of the machine occurs on one of the said intake or outlet lines (16, 18); the secondary line (19) being equipped with a throttle valve (22) for controlling the flow of the medium delivered from the chamber (28, 30, 31) to the intake line (16) or to the outlet line (18). <IMAGE>

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F01C 1/12; **F01C 21/00**

IPC 8 full level

F01C 1/12 (2006.01); **F01C 21/00** (2006.01)

CPC (source: EP)

F01C 1/126 (2013.01); **F01C 21/006** (2013.01)

Citation (examination)

EP 0456352 A1 19911113 - DRUM ENG CO LTD [GB]

Cited by

CN102536830A; CN111350665A; DE102019200028A1; CN111350664A; WO9616251A1; US6364642B1; US6439865B1; WO9957419A1; WO9957439A1

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