

Title (en)
ROTOR COOLING FOR DRY-RUNNING TWIN-SHAFT VACUUM PUMPS OR COMPRESSORS

Title (de)
ROTORKÜHLUNG FÜR TROCKEN LAUFENDE ZWEIWELLEN-VAKUUMPUMPEN BZW. -VERDICHTER

Title (fr)
REFROIDISSEMENT DE ROTOR POUR POMPES À VIDE OU COMPRESSEURS À DEUX ARBRES FONCTIONNANT À SEC

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EP 2052158 A1 20090429 (DE)

Application
EP 07786670 A 20070813

Priority
• EP 2007007150 W 20070813
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Abstract (en)
[origin: WO2008019815A1] In a dry-running twin-shaft vacuum pump or compressor having two parallel shafts and positive-displacement rotors (2, 3; 17, 18; 23, 24) which are arranged on said shafts and which are located in a working space and which are synchronized in the ratio 1:1, for example mechanically by means of a transmission or electronically by means of one drive motor per rotor shaft, and which have an intake opening (1) on their suction side and at least one outlet opening (16) on their pressure side, the arrangement is configured such that each shaft (4, 5) of the positive-displacement rotors has an axially running cavity which extends at least over a partial length of the shaft, in which cavity in each case at least one heat tube (8, 9) is arranged in such a way that the compression heat from the positive-displacement rotors is dissipated out of the working space via the shafts, and is if appropriate conducted to an adjoining sealing space, and outside the working space, is dissipated out of the machine by heat dissipation means.

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