

Title (en)

METHOD FOR PRODUCING A PAIR OF SCREW ROTORS OF A SCREW COMPRESSOR

Publication

EP 0104265 B1 19871216 (EN)

Application

EP 82108865 A 19820924

Priority

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Abstract (en)

[origin: EP0104265A1] In a screw compressor including a female rotor and a male rotor rotating while meshing with each other, the rotor tooth form (8) of one of the female and male rotors meshing with each other without any clearance therebetween in normal temperature condition is used as a basic tooth form for obtaining a rotor tooth form (9) produced by deformation on account of thermal expansion during operation. The tooth form thus obtained is used for generating another rotor tooth form (10), and the rotor tooth form thus generated is used to obtain a rotor tooth form which is a normal temperature version of the thermally deformed tooth form, to thereby use the rotor tooth form of the normal temperature version for the other of the female and male rotors. In deciding the rotor tooth form, the backlash of synchronizing means may also be taken into consideration in addition to the influences of thermal expansion.

IPC 1-7

F04C 18/16

IPC 8 full level

F04C 18/08 (2006.01)

CPC (source: EP)

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Citation (examination)

"Schrauben-Verdichter", Laurenz Rinder, (Springer Verlag, Wien/New York, 1979)

Cited by

BE1009829A3; DE102013110091B3; DE3911020A1; DE19941787A1; DE19941787B4; GB2608630A; EP0106912B1

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