

Title (en)

Helical gear pump.

Title (de)

Exzentrerschneckenpumpe.

Title (fr)

Pompe à vis excentrée.

Publication

EP 0381413 A2 19900808 (EN)

Application

EP 90300894 A 19900129

Priority

GB 8902230 A 19890201

Abstract (en)

A helical gear pump is described in which the geometry of the stator (8) and rotor (22) are modified such that the interference is significantly more at the locations of the minor diameter d than the locations of the major diameter D of the rotor. The rotor (22) is preferably plasma coated with modified chromium oxide and the base metal of the rotor is advantageously machined so that in the region of locations of major diameter D, the thickness of the plasma coating (28) is less and, in the region of the locations of minor diameter d, the thickness of the plasma coating (28) is greater than in the remainder of the rotor (22) while allowing the interference to be significantly more at the locations of the minor diameter d than at the locations of the major diameter D.

IPC 1-7

F04C 2/107; F04C 5/00

IPC 8 full level

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CPC (source: EP)

F04C 2/1073 (2013.01)

Cited by

EP0627556A1; DE102017104768A1; EP0985826A1; AU754641B2; US6220837B1; WO2018162360A1; WO2004081347A1

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DOCDB simple family (publication)

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