

Title (en)

Method for producing a stator segment for a stator constructed in segments of an eccentric screw pump

Title (de)

Verfahren zur Herstellung eines Statorsegments für einen segmentweise aufgebauten Stator einer Exzentrerschneckenpumpe

Title (fr)

Procédé de fabrication d'un segment de stator de pompe à vis excentrique à stator segmenté

Publication

EP 2249037 A2 20101110 (DE)

Application

EP 10004334 A 20100423

Priority

US 43583809 A 20090505

Abstract (en)

The method involves machining a stator segment (1) provided in an initial condition by a material erosive linear cutting unit for producing a helical segment inner surface (2). The cutting unit is moved along closed outer edges (3, 4) such that the edges run on the inner surface. The cutting unit is aligned such that a gradient of the cutting unit lies on the inner surface and formed as a jet e.g. water jet, laser jet or plasma jet or a wire e.g. spark erosion wire or fuse wire. The stator segment is made of metal i.e. aluminum, ceramic or cross-linked thermoplastic polymer. An independent claim is also included for a stator segment for a stator constructed in segments of an eccentric screw pump or eccentric screw motor.

Abstract (de)

Verfahren zur Herstellung eines Statorsegments für einen segmentweise aufgebauten Stator einer Exzentrerschneckenpumpe wobei ein sich in einem Ausgangszustand befindendes Statorsegment mittels eines Material abtragenden linearen Schneidmittels zur Erzeugung einer helixförmigen Segmentinnenfläche (2) bearbeitet wird.

IPC 8 full level

F04C 2/107 (2006.01)

CPC (source: EP US)

F04C 2/1075 (2013.01 - EP US); **F04C 2230/10** (2013.01 - EP US); **F04C 2240/70** (2013.01 - EP US); **Y10T 29/49242** (2015.01 - EP US)

Citation (applicant)

US 7396220 B2 20080708 - DELPASSAND MAJID S [US], et al

Cited by

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