Title (en)

Method for adjusting the torque for force transmission of a magnetic drive agitator

Title (de)

Verfahren zur Drehmomenteinstellung für die Kraftübertragung eines Rührwerk mit magnetischem Antrieb

Title (fr)

Procédé du réglage du couple limite de transmission d'effort d'un agitateur à entraînement magnétique

Publication

## EP 1023936 B2 20070307 (FR)

Application EP 99420233 A 19991126

Priority

FR 9901130 A 19990128

Abstract (en)

[origin: EP1023936A1] The rotor can be moved in translation parallel to the X-X' axis inside the sleeve between a first position where the two means of coupling are matching to drive the helix in rotation and a second position where they do not interact or interact little, so the helix can be displaced relative to the sleeve without the two couplings interacting The agitator comprises a union (5) which can be mounted in a sealed fashion in a wall (2a) of a receiver with a blind sleeve (10) inside which is fitted a rotor (20) supporting a first magnetic coupling (21). A helix (8) placed around the sleeve is equipped with a second magnetic coupling (17) to drive the helix around an axis (X-X') of rotation. The rotor can be moved in rotation around and parallel to the axis X-X' by a drive shaft (22) which is itself movable in rotation around and parallel to the X-X' axis between two positions corresponding to those of the rotor. The rotor has a central hollow to receive a screw for mounting the rotor on the shaft, with the screw placed along the X-X' axis. The rotor and/or shaft can be immobilized during their parallel movement in an intermediate position. The drive shaft is mounted to slide inside a hollow shaft which is the output from a reduction gear, with the two shafts fixed together in rotation. The hollow shaft has a screw which acts with a fillet fixed to the drive shaft. The parallel movement is controlled by a hydraulic or pneumatic jack. Process of controlling couple transmitted to a magnetic agitator as described above by controlling the position of the rotor along the X-X' axis.

IPC 8 full level

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CPC (source: EP US)

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Cited by

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