

Title (en)

METERING DEVICE FOR CONTACTLESS DETERMINATION OF A ROTATION

Title (de)

MESSVORRICHTUNG ZUR BERÜHRUNGSLOSEN ERFASSUNG EINES DREHWINKELS

Title (fr)

DISPOSITIF DE MESURE POUR DETERMINER SANS CONTACT UN ANGLE DE ROTATION

Publication

EP 1068490 A1 20010117 (DE)

Application

EP 98958812 A 19981012

Priority

- DE 9803003 W 19981012
- DE 19753777 A 19971204

Abstract (en)

[origin: DE19753777A1] The invention relates to a metering device for contactless determination of a rotation angle. The inventive device comprises a rotor (12) and a stator (11). Said stator (11) has inter alia two segments (24, 25) separated by a slit (26, 27). The slit (27) is adapted in such a way that the magnetic field generated by a permanent magnet (21) forming the rotor (12) does not extend above the slit (27) but above the air gap (26) where a magnetic-field sensitive member (30) is placed. The permanent magnet (21) has a form fitted to the slit (27) and the two segments (24, 25) so that, while the permanent magnet (21) rotates, the air gap (27) is not scanned by the magnetic field. It is thus possible to determine a relatively wide angle with a linear metering curve having no sign change.

IPC 1-7

G01D 5/14; **G01D 5/16**; **G01B 7/30**

IPC 8 full level

G01B 7/30 (2006.01); **G01D 5/14** (2006.01); **G01D 5/16** (2006.01)

CPC (source: EP KR US)

G01B 7/30 (2013.01 - EP US); **G01D 5/14** (2013.01 - KR); **G01D 5/145** (2013.01 - EP US)

Citation (search report)

See references of WO 9930111A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

DE 19753777 A1 19990610; AU 1481999 A 19990628; AU 730011 B2 20010222; EP 1068490 A1 20010117; JP 2001510575 A 20010731; KR 20000070595 A 20001125; US 6433538 B1 20020813; WO 9930111 A1 19990617

DOCDB simple family (application)

DE 19753777 A 19971204; AU 1481999 A 19981012; DE 9803003 W 19981012; EP 98958812 A 19981012; JP 52961599 A 19981012; KR 19997006842 A 19990729; US 35547599 A 19990730