

Title (en)
DEVICE FOR DETECTING ANGULAR DISPLACEMENT

Title (de)
VORRICHTUNG ZUR ERFASSUNG DER ÄNDERUNG DER WINKELSTELLUNG

Title (fr)
DISPOSITIF DE DETECTION DE DEPLACEMENT ANGULAIRE

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Application
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Abstract (en)
[origin: WO0179860A1] The invention concerns a device for detecting one or more parameters of a rotary member angular displacement, comprising: an instrumented roller bearing (1) provided with a non-rotating part including a non-rotating ring (2) and a sensor block (8), a rotating part including a rotating ring (2) and a coding ring (15) mounted opposite the sensor block (8) and at least a row of rolling elements (4); and means for processing signals transmitted by the sensor block. The sensor block (8) comprises at least two sensing elements (9, 10) co-operating with the single coding ring, signals transmitted independently by each sensing element corresponding to the same parameter of angular displacement, so as to supply to the processing means a redundant information on said parameter of angular displacement.

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Citation (search report)
See references of WO 0179860A1

Citation (examination)
• EP 0756174 A1 19970129 - NIPPON DENSO CO [JP]
• EP 0553716 A1 19930804 - SKF IND SPA [IT]
• EP 0838683 A1 19980429 - SKF FRANCE [FR]
• FR 2642122 A1 19900727 - ROULEMENTS SOC NOUVELLE [FR]
• FR 2718499 A1 19951013 - SKF IND SPA [IT]
• FR 2762652 A1 19981030 - SKF FRANCE [FR]
• US 5873658 A 19990223 - MESSAGE OLIVIER [FR], et al
• EP 0872652 A1 19981021 - SKF FRANCE [FR]

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