

Title (en)

METHOD FOR DETECTING THE DIRECTION OF ROTATION OF A WHEEL BY MEANS OF HALL PROBES

Title (de)

VERFAHREN ZUR ERKENNUNG DER DREHRICHTUNG EINES RADES MITTELS HALL-SONDEN

Title (fr)

PROCEDE POUR DETECTER LE SENS DE ROTATION D'UNE ROUE AU MOYEN DE SONDAS DE HALL

Publication

EP 0977997 A2 20000209 (DE)

Application

EP 98931990 A 19980423

Priority

- DE 9801140 W 19980423
- DE 19717364 A 19970424

Abstract (en)

[origin: DE19717364C1] The method the use of Hall effect probes arranged in the peripheral direction of the wheel (1). They are arranged so that the second probe (15) is positioned centrally between the first (14) and the third (16) probes providing output signals (S1,S2,S3) respectively. Two evaluation signals are derived from the three output signals, the first (A) by subtracting output signal (S3) from (S1) and the second (B) by adding (S1) and (S3) from the sum of which double the value of (S2) is subtracted. One of the evaluation signals (A,B) is sampled passing through zero and the sign of the other checked. With reference to the sampled signal each sign is assigned a direction of rotation

IPC 1-7

G01P 1/00

IPC 8 full level

G01D 5/14 (2006.01); **G01D 5/245** (2006.01); **G01P 13/04** (2006.01)

CPC (source: EP KR)

G01D 5/147 (2013.01 - EP); **G01D 5/2451** (2013.01 - EP); **G01P 13/04** (2013.01 - KR); **G01P 13/045** (2013.01 - EP)

Citation (search report)

See references of WO 9848284A2

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 19717364 C1 19980827; CA 2287182 A1 19981029; CN 1260879 A 20000719; EP 0977997 A2 20000209; JP 2001521630 A 20011106; KR 20010020194 A 20010315; WO 9848284 A2 19981029; WO 9848284 A3 19990128

DOCDB simple family (application)

DE 19717364 A 19970424; CA 2287182 A 19980423; CN 98804477 A 19980423; DE 9801140 W 19980423; EP 98931990 A 19980423; JP 54474098 A 19980423; KR 19997009771 A 19991022