



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 329 727 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

Note: Bibliography reflects the latest situation

(15) Correction information:
Corrected version no 1 (W1 A1)
INID code(s) 30

(51) Int Cl.7: **G01P 3/44**, G01P 21/02,
G08C 17/02, B60C 23/00

(48) Corrigendum issued on:
08.10.2003 Bulletin 2003/41

(43) Date of publication:
23.07.2003 Bulletin 2003/30

(21) Application number: **02023216.1**

(22) Date of filing: **16.10.2002**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SK TR
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **18.10.2001 JP 2001320629**
12.11.2001 JP 2001346521
21.11.2001 JP 2001356399
21.11.2001 JP 2001356076
08.07.2002 JP 2002198703

(71) Applicant: **NSK LTD**
Shinagawa-ku, Tokyo (JP)

(72) Inventors:
• **Morita, Kouichi, c/o NSK Ltd.**
Fujisawa-shi, Kanagawa-ken (JP)

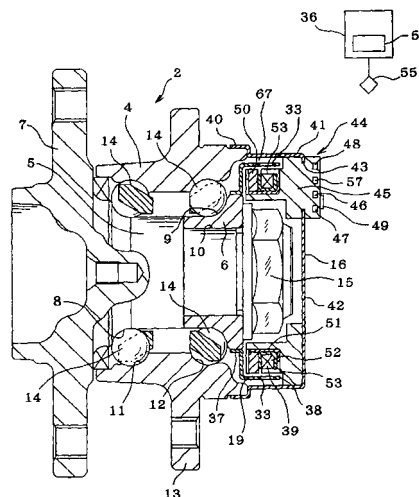
- **Sakatani, Ikunori, c/o NSK Ltd.**
Fujisawa-shi, Kanagawa-ken (JP)
- **Endo, Shigeru, c/o NSK Ltd.**
Fujisawa-shi, Kanagawa-ken (JP)
- **Miyazaki, Hiroya, c/o NSK Ltd.**
Fujisawa-shi, Kanagawa-ken (JP)
- **Sakamoto, Junshi, c/o NSK Ltd.**
Fujisawa-shi, Kanagawa-ken (JP)
- **Nakamura, Yuji, c/o NSK Ltd.**
Fujisawa-shi, Kanagawa-ken (JP)

(74) Representative: **Brown, John David**
FORRESTER & BOEHMERT
Pettenkoferstrasse 20-22
80336 München (DE)

(54) **Rotation-speed sensor device**

(57) A rotation-speed sensor device is provided to comprise an encoder supported by a rotating race of a rolling bearing unit for vehicle wheel support to be concentric with the rotating race and having a detected portion the characteristics of which are alternately changed in a circumferential direction, a rotation detection sensor supported by a non-rotating member on the vehicle chassis side and having a detecting portion facing the detected portion to produce a detection signal, a wireless transmission device for sending the detection signal from the rotation detection sensor to a controller provided on the vehicle chassis side, and a self-diagnosis circuit to judge whether there is an error or not in the rotation detection sensor.

Fig. 1



EP 1 329 727 A8

Fig. 2

