



(11) **EP 1 661 903 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 30

(51) Int Cl.:
C07F 9/50 (2006.01) **C07B 53/00** (2006.01)
C07C 29/145 (2006.01) **C07C 33/20** (2006.01)
C07C 211/27 (2006.01) **B01J 31/24** (2006.01)

(48) Corrigendum issued on:
19.10.2011 Bulletin 2011/42

(86) International application number:
PCT/JP2004/011693

(45) Date of publication and mention
of the grant of the patent:
11.05.2011 Bulletin 2011/19

(87) International publication number:
WO 2005/016943 (24.02.2005 Gazette 2005/08)

(21) Application number: **04771660.0**

(22) Date of filing: **13.08.2004**

(54) **NOVEL TRANSITION METAL COMPLEX AND PROCESS FOR PRODUCING OPTICALLY ACTIVE ALCOHOL WITH THE COMPLEX**

NEUER ÜBERGANGSMETALLKOMPLEX UND VERFAHREN ZUR HERSTELLUNG VON OPTISCH AKTIVEM ALKOHOL MIT DEM KOMPLEX

NOUVEAU COMPLEXE DE METAL DE TRANSITION ET PROCEDE DE FABRICATION D'UN ALCOOL OPTIQUEMENT ACTIF AU MOYEN DE CE COMPLEXE

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

(56) References cited:
EP-A2- 1 323 724 WO-A1-01/74829
DE-A1- 10 205 702 JP-A- 2002 308 816

(30) Priority: **13.08.2003 JP 2003293145**

(43) Date of publication of application:
31.05.2006 Bulletin 2006/22

(73) Proprietor: **Takasago International Corporation**
Tokyo-to 144-8721 (JP)

(72) Inventors:
• **MIKAMI, Koichi**
Ohta-ku, Tokyo 1450061 (JP)
• **SAYO, N.**
c/o Takasago International Corporation
Ohta-ku
Tokyo-to 144-8721 (JP)

(74) Representative: **Benson, John Everett et al**
J. A. Kemp & Co.
14 South Square
Gray's Inn
London WC1R 5JJ (GB)

- **DOUCET ET AL: "Trans-[RuCl₂(phosphane)₂(1,2-diamine)] and chiral trans- [RuCl₂(diphosphane)(1,2-diamine)]: shelf-stable precatalysts for the rapid, productive, and stereoselective hydrogenation of ketones" ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, WILEY VCH VERLAG, WEINHEIM, DE, vol. 37, no. 12, 1998, pages 1703-1707, XP002222044 ISSN: 1433-7851**
- **KRANENBURG M ET AL: "NEW DIPHOSPHINE LIGANDS BASED ON HETEROCYCLIC AROMATICS INDUCING VERY HIGH REGIOSELECTIVITY IN RHODIUM-CATALYZED HYDROFORMYLATION: EFFECT OF THE BITE ANGLE" ORGANOMETALLICS, WASHINGTON, DC, US, vol. 14, no. 6, 1 June 1995 (1995-06-01), pages 3081-3089, XP000565303 ISSN: 0276-7333**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 1 661 903 B8

- | | |
|---|--|
| <ul style="list-style-type: none">• LESUEUR W ET AL: "A bidentate bisphosphine functioning in intramolecular aliphatic metalation and as an NMR spectroscopic probe for the metal coordination environment" INORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 36, no. 15, 16 July 1997 (1997-07-16), pages 3354-3362, XP002224116 ISSN: 0020-1669 | <ul style="list-style-type: none">• XIE JIAN-HUA ET AL: "Synthesis of Spiro Diphosphines and Their Application in Asymmetric Hydrogenation of Ketones" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC. US, vol. 125, no. 15, 1 January 2003 (2003-01-01), pages 4404-4405, XP009125884 ISSN: 0002-7863 |
|---|--|