

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 127 060 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

Note: Bibliography reflects the latest situation

(15) Correction information:

**Corrected version no 1 (W1 B1)
INID code(s) 30**(51) Int Cl.7: **C07F 5/02, C07F 5/04,****C07B 37/04**

(48) Corrigendum issued on:

05.01.2005 Bulletin 2005/01

(86) International application number:

PCT/AU1999/000967(45) Date of publication and mention
of the grant of the patent:**07.04.2004 Bulletin 2004/15**

(87) International publication number:

WO 2000/027853 (18.05.2000 Gazette 2000/20)(21) Application number: **99963164.1**(22) Date of filing: **05.11.1999**(54) **HYDROBORONATION PROCESS**

HYDROBORONATIONSVERFAHREN

PROCEDE DE TRAITEMENT AUX BORATES HYDROCARBONES

(84) Designated Contracting States:

**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**

(56) References cited:

**WO-A-98/45265 WO-A-98/58935
WO-A-99/12940**(30) Priority: **06.11.1998 AU PP697798****24.12.1998 AU PP793598****11.08.1999 AU PQ215899**

(43) Date of publication of application:

29.08.2001 Bulletin 2001/35(73) Proprietor: **COMMONWEALTH SCIENTIFIC AND
INDUSTRIAL RESEARCH ORGANISATION****Campbell, Australian Capital Territory 2601 (AU)**

(72) Inventors:

- **MARCUCCIO, Sebastian, Mario**
Endeavour Hills, Victoria 3802 (AU)
- **RODOPOULOS, Mary**
Blackburn South, Victoria 3130 (AU)
- **WEIGOLD, Helmut**
Mount Waverley, Victoria 3149 (AU)

(74) Representative: **Kyle, Diana****Elkington and Fife LLP,
Prospect House,
8 Pembroke Road
Sevenoaks, Kent TN13 1XR (GB)**

- **DATABASE CA [Online] CHEMICAL
ABSTRACTS SERVICE, COLUMBUS, OHIO, US;
DALLACKER, FRANZ ET AL: "Preparation of
1,3-benzodioxole boron compounds" retrieved
from STN Database accession no. 102:78929 CA
XP002202094 & CHEM.-ZTG. (1984), 108(9),
287-8, 1984,**
- **DATABASE CROSSFIRE BEILSTEIN [Online]
Beilstein Institut zur Förderung der Chemischen
Wissenschaften, Frankfurt am Main, DE;
Database accession no. Reaction ID 7840619
XP002202095 & BAMFORD; FORHAM: SCI
MONOGR., vol. 13, 1961, pages 320-322,**
- **ISHIYAMA T ET AL: "SYNTHESIS OF
ARYLBORONATES VIA THE
PALLADIUM(0)-CATALYZED CROSS-
COUPLING REACTION OF
TETRA(ALKOXO)DIBORONS WITH ARYL
TRIFLATES" TETRAHEDRON LETTERS,
ELSEVIER SCIENCE PUBLISHERS,
AMSTERDAM, NL, vol. 38, no. 19, 12 May 1997
(1997-05-12), pages 3447-3450, XP000686267
ISSN: 0040-4039**

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 1 127 060 B8

- MURATA M. ET AL.: 'Novel palladium (0)-catalyzed coupling reaction of dialkoxyborane with aryl halides: convenient synthetic route to arylboronates' J. ORG. CHEM., vol. 62, no. 19, 1997, pages 6458 - 6459, XP002961459
- DATABASE CA [Online] XP002961466 Database accession no. 69:58824 & US 3 383 401 A 14 May 1998
- DATABASE CA [Online] XP002961467 Database accession no. 71:91544 & FR 1 536 699 A 16 August 1968
- DATABASE CA [Online] BELLO-RAMIREZ M.A. ET AL.: 'Dioxoborolanes and borates derived from 2,3-butanediol, mandelic acid and quinic acid (1)', XP002961468 Database accession no. 120:323631 & HETEROAT. CHEM. vol. 4, no. 6, 1993, pages 613 - 620
- DATABASE CA [Online] GAMBLE M.P. ET AL.: 'Design, synthesis and applications of a ketone reduction catalyst containing a phosphinamide combined with a dioxaborolidine unit', XP002961469 Database accession no. 126:60028 & TETRAHEDRON ASYMMETRY vol. 7, no. 11, 1996, pages 3071 - 3076
- DATABASE CA [Online] MATTESON D.S. ET AL.: 'Synthesis and properties of penanediol alpha-amido boronic esters', XP002961470 Database accession no. 101:111361 & ORGANOMETALLICS vol. 3, no. 8, 1984, pages 1284 - 1288
- DATABASE CA [Online] BURGESS K. ET AL.: 'Ruthenium-catalyzed hydroboration of alkenes', XP002961471 Database accession no. 119:249249 & ORGANOMETALLICS vol. 12, no. 10, 1993, pages 4197 - 4200
- DATABASE CA [Online] FISH R.H.: 'The addition of 4,4,6-trimethyl-1,3,2-dioxaborinane to allenes', XP002961472 Database accession no. 69:85901 & J. AM. CHEM. SOC. vol. 90, no. 16, 1968, pages 4435 - 4439
- DATABASE CA [Online] XP002961473 Database accession no. 129:216633 & JP 10 212 279 A 11 August 1998
- DATABASE CA [Online] ARASE A. ET AL.: 'Lithium triethylborohydride-promoted hydroboration of alkenes with dialkoxyboranes', XP002961474 Database accession no. 116:128127 & J. CHEM. SOC. CHEM. COMM. no. 1, 1992, pages 51 - 52