

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063619 A2

(51) International Patent Classification⁷: **C01B 15/00**

(21) International Application Number:
PCT/EP2004/013656

(22) International Filing Date:
29 November 2004 (29.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI 2003 A002553
22 December 2003 (22.12.2003) IT

(71) Applicant (for all designated States except US):
POLIMERI EUROPA S.P.A. [IT/IT]; Via E. Fermi
4, I-72100 Brindisi (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MIGLIO, Roberta**
[IT/IT]; Via Borzighella 3, I-28047 Oleggio-Novara (IT).
PAPARATTO, Giuseppe [IT/IT]; Via Vasari 7, I-20092
Cinisello Balsamo-Milan (IT). **DE ALBERTI, Giordano**
[IT/IT]; Largo Brianzoni 4, I-21010 Besnate-Varese (IT).

(74) Agents: **DE GREGORI, Antonella**, et al.; Ing. Barzano'
& Zanardo Milano S.p.A., Via Borgonuovo 10, I-20121
Milan (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE REMOVAL OF THE INORGANIC ACIDS AND METAL IMPURITIES PRESENT IN ESSEN-
TIALY ALCOHOLIC SOLUTIONS OF H₂O₂ COMING FROM DIRECT SYNTHESIS

(57) Abstract: Process for the contemporaneous removal of inorganic acids and heavy metals present in solutions of H₂O₂ coming
from direct synthesis starting from hydrogen and oxygen, fed to a reactor containing a palladium and platinum catalyst, in an es-
sentially alcoholic liquid reaction medium containing an inorganic acid and a halogen as promoters, which comprises treating the
solution of H₂O₂ by putting it in contact with an anionic exchange resin.



WO 2005/063619 A2