

Title (en)
METHOD FOR PRODUCING NITRIDES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON NITRIDEN UND ANWENDUNGEN ALS FLUORESZENZMARKER UND LEUCHTDIODE

Title (fr)
PROCEDE DE PREPARATION DE NITRURES

Publication
EP 1497226 A2 20050119 (DE)

Application
EP 03727340 A 20030423

Priority
• DE 10218409 A 20020424
• EP 0304195 W 20030423

Abstract (en)
[origin: WO03091822A2] The invention relates to a method for producing nitrides of formula $Ga_{1-x}In_xN$, wherein $0.01 \leq x \leq 1$, wherein one or more compounds of general formula $M(NR_2)_3$, wherein all R's independently represent H, linear or branched -C1-8-alkyl or -SiR<x> 2, R<x> is equally linear or branched -C1-8-alkyl, and M represents Ga, In or $Ga_{1-x}In_x$, are reacted with ammonia and the one or more compounds $M(NR_2)_3$ are selected in such a way that the ratio 1-x Ga to x In is also obtained in said compounds.

IPC 1-7
C01B 21/06

IPC 8 full level
C01B 21/06 (2006.01); **C01G 15/00** (2006.01); **C23C 16/30** (2006.01); **C30B 25/02** (2006.01); **C30B 29/40** (2006.01); **H01L 21/205** (2006.01)

CPC (source: EP US)
C01B 21/0602 (2013.01 - EP US); **C01B 21/0632** (2013.01 - EP US); **C23C 16/303** (2013.01 - EP US); **C30B 25/02** (2013.01 - EP US); **C30B 29/40** (2013.01 - EP US); **H01L 21/0254** (2013.01 - EP US); **H01L 21/02587** (2013.01 - EP US); **H01L 21/0262** (2013.01 - EP US)

Citation (search report)
See references of WO 03091822A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03091822 A2 20031106; **WO 03091822 A3 20040219**; AU 2003233045 A1 20031110; AU 2003233045 A8 20031110; CN 1646422 A 20050727; DE 10218409 A1 20031106; EP 1497226 A2 20050119; JP 2005523865 A 20050811; KR 20040111545 A 20041231; US 2005220694 A1 20051006

DOCDB simple family (application)
EP 0304195 W 20030423; AU 2003233045 A 20030423; CN 03809114 A 20030423; DE 10218409 A 20020424; EP 03727340 A 20030423; JP 2004500134 A 20030423; KR 20047017015 A 20030423; US 51255404 A 20041025