

Title (en)

PRODUCTION OF SILICON AND GERMANIUM PHTHALOCYANINES AND RELATED SUBSTANCES

Title (de)

HERSTELLUNG VON SILICIUM- UND GERMANIUMPHTHALOCYANINEN UND VERWANDTEN SUBSTANZEN

Title (fr)

PREPARATION DE PHTHALOCYANINES DE SILICIUM ET DE GERMANIUM ET SUBSTANCES APPARENTÉES

Publication

EP 2134792 A2 20091223 (DE)

Application

EP 08735591 A 20080331

Priority

- EP 2008053779 W 20080331
- EP 07105776 A 20070405
- EP 08735591 A 20080331

Abstract (en)

[origin: WO2008122531A2] The invention relates to a method for producing compounds of general formula (I) by converting the compound of general formula (II), where L, L' independently of one another are the same or different and represent Cl or OH, in the presence of a) chlorine compounds Cl-M² R¹ R² R³, Cl-M³ R⁴ R⁵ R⁶, with the proviso that both L and L' are not OH at the same time, or b) hydroxy compounds HO-M² R¹ R² R³, HO-M³ R⁴ R⁵ R⁶. The invention also relates to the use of compounds of general formula (I) as tracer substances for liquids and to methods for detecting tracer substances in liquids

IPC 8 full level

C09B 47/08 (2006.01); **C09B 47/067** (2006.01); **C09B 47/22** (2006.01); **C10L 1/00** (2006.01); **C10L 1/22** (2006.01); **C10M 171/00** (2006.01)

CPC (source: EP KR US)

C09B 47/0673 (2013.01 - EP KR US); **C09B 47/08** (2013.01 - EP KR US); **C09B 47/22** (2013.01 - EP KR US); **C10L 1/003** (2013.01 - EP KR US); **C10L 1/1608** (2013.01 - KR); **C10L 1/2383** (2013.01 - KR); **C10L 1/28** (2013.01 - EP KR US); **C10L 1/301** (2013.01 - EP KR US); **C10M 171/007** (2013.01 - EP KR US); **C10L 1/1608** (2013.01 - EP US); **C10L 1/2383** (2013.01 - EP US); **C10M 2227/09** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2008122531A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008122531 A2 20081016; **WO 2008122531 A3 20090730**; AR 065957 A1 20090715; BR PI0810076 A2 20141021; CL 2008000992 A1 20090327; CN 101668818 A 20100310; EP 2134792 A2 20091223; JP 2010523751 A 20100715; KR 20100009566 A 20100127; PE 20090285 A1 20090327; RU 2009140324 A 20110510; TW 200909525 A 20090301; US 2010113767 A1 20100506

DOCDB simple family (application)

EP 2008053779 W 20080331; AR P080101421 A 20080404; BR PI0810076 A 20080331; CL 2008000992 A 20080404; CN 200880010620 A 20080331; EP 08735591 A 20080331; JP 2010501491 A 20080331; KR 20097023086 A 20080331; PE 2008000614 A 20080404; RU 2009140324 A 20080331; TW 97112382 A 20080403; US 59309708 A 20080331