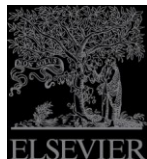




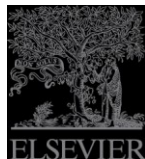
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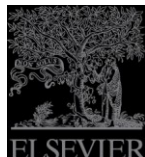
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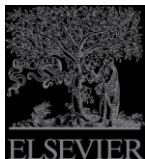
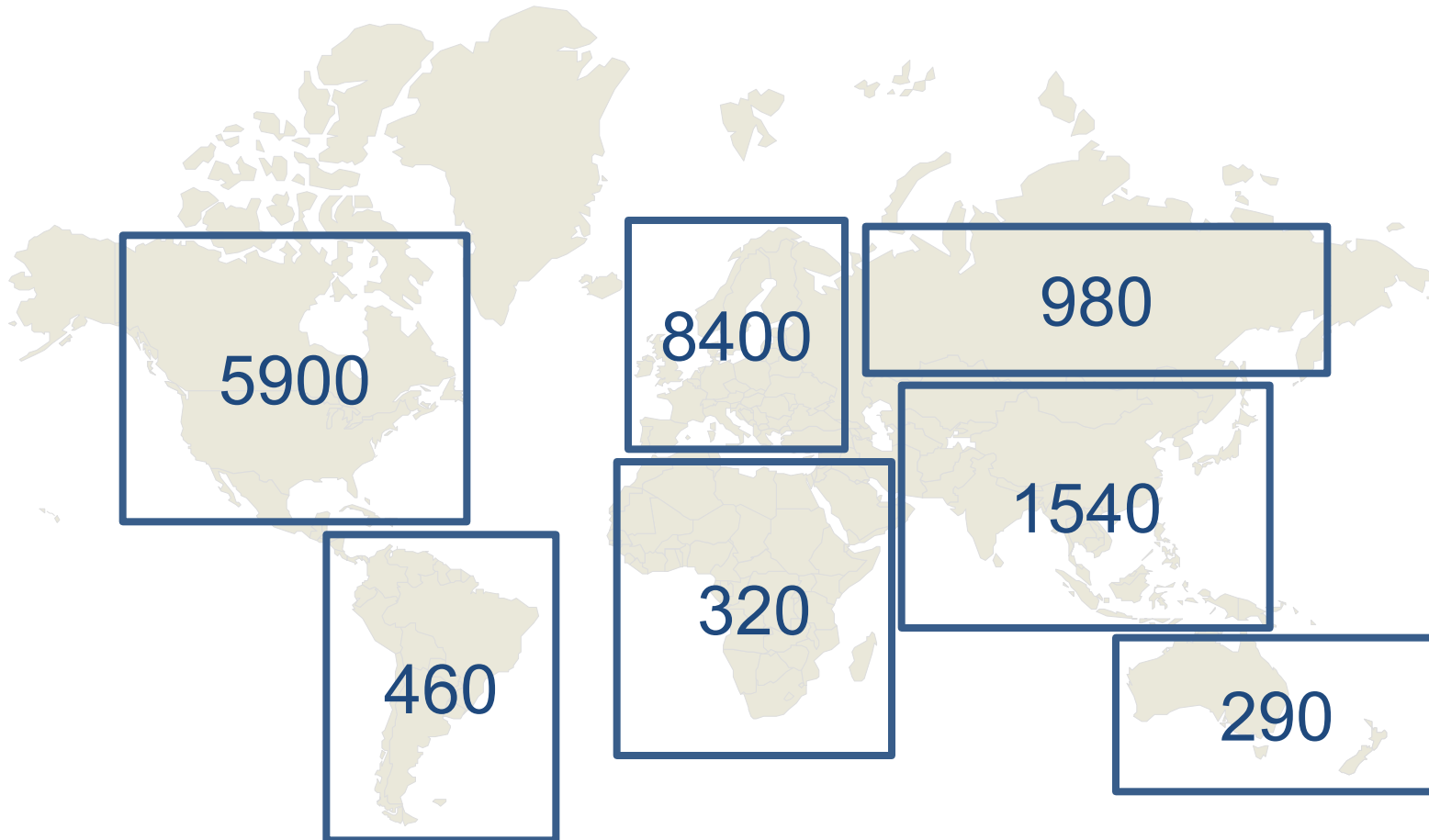
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A SYSTEM AND METHOD FOR DETERMINING PRODUCTION PLANS AND FOR PREDICTING INNOVATION

Bibliographic data | Description | Claims | Mosaics | Original document | INPADOC legal status

Publication number: WO0020983 (A1)
Publication date: 2000-04-13
Inventor(s): AUERSWALD PHILIP [US]; KAUFFMAN STUART A [US]; LOBO JOSE [US]; SHELL KARL [US] +
Applicant(s): BIOS GROUP LP [US]; AUERSWALD PHILIP [US]; KAUFFMAN STUART A [US]; LOBO JOSE [US]; SHELL KARL [US] +
Classification:
 - international: **G06Q10/00; G06Q10/00;** (IPC1-7): G06F15/21; G06F17/60
 - European: **G06Q10/00C**
Application number: WO1999US22911 19991001
Priority number(s): US19980103128P 19981002

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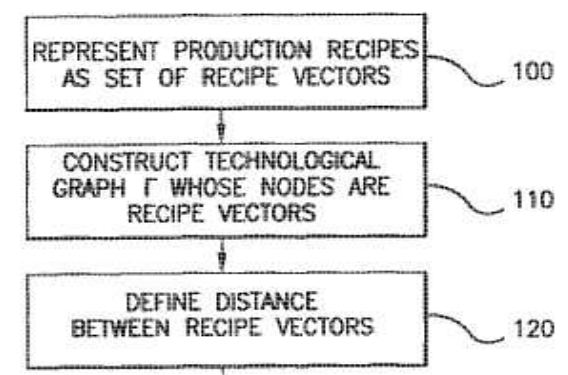
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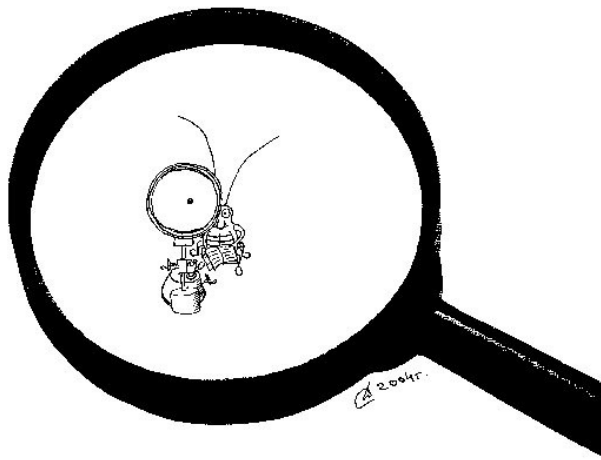
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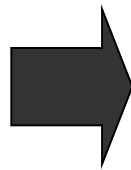
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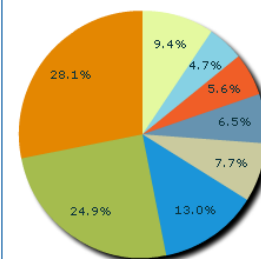
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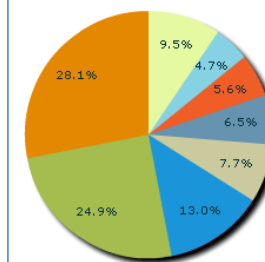
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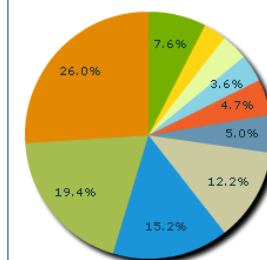
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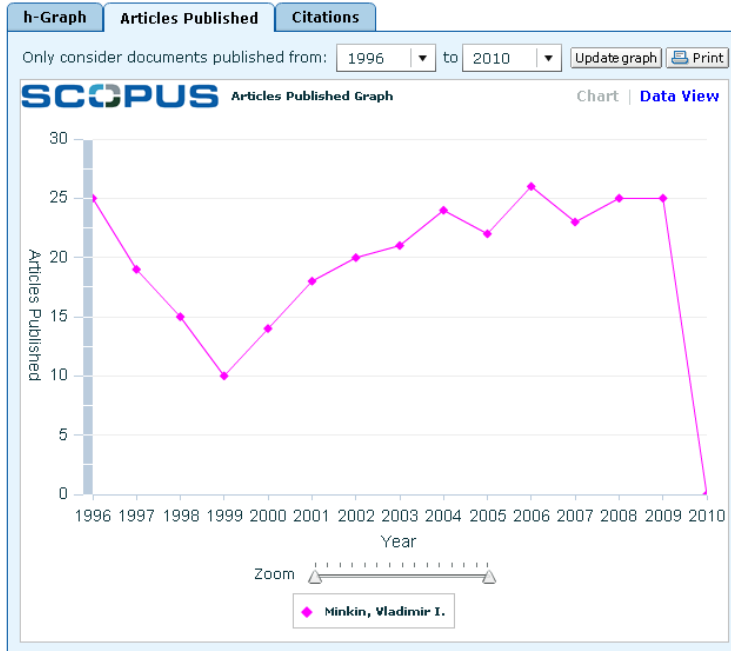
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United States Patent

7,005,519

Chen, et al.

February 28, 2006

Tetraazaporphyrin compounds

Abstract

This invention relates to a method of preparing a compound of formula (I): ##STR00001## The method includes reacting one or more compounds of formula (II): ##STR00002## in the presence of a base and a halogenating agent. In formulas (I) and (II) above, each A, independently, is aryl or heteroaryl; each n, independently, is 0-3; and each R.sub.1, independently, is C.sub.1-C.sub.10 alkyl, C.sub.3-C.sub.20 cycloalkyl, C.sub.3-C.sub.20 heterocycloalkyl, aryl, heteroaryl, halo, cyano, nitro, OR.sub.a, NR.sub.aR.sub.b, SiR.sub.aR.sub.bR.sub.c, COOR.sub.a, OC(O)R.sub.a, C(O)NR.sub.aR.sub.b, N(R.sub.a)-C(O)R.sub.b, or SO.sub.3R.sub.a; wherein each of R.sub.a, R.sub.b, and R.sub.c, independently, is H, C.sub.1-C.sub.10 alkyl, C.sub.3-C.sub.20 cycloalkyl, C.sub.3-C.sub.20 heterocycloalkyl, aryl, or heteroaryl; thereby producing the compound of formula (I) in a one-pot reaction. This invention also relates to the compounds prepared by the method described above.

Inventors: **Chen; Chin-Ti** (Taipei, TW), **Yeh; Hsiu-Chih** (Taipei, TW)

Assignee: **Academia Sinica** (Taipei, TW)

Appl. No.: **10/922,138**

Filed: **August 18, 2004**

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540/145 ; 424/9.362; 424/9.61; 534/15

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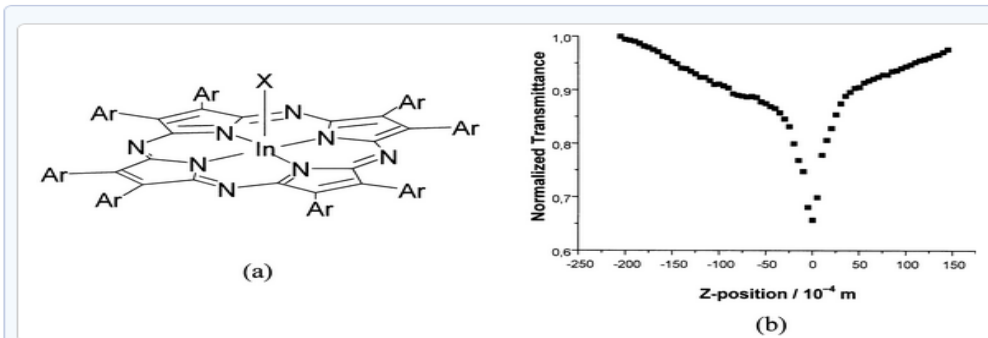
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Abstract



The preparation of (octaaryl tetraazaporphyrinato)indium(III) chlorides [aryl = phenyl (**5a**), *p*-*tert*-butylphenyl (**6a**), *p*-(trifluoromethyl)phenyl (**7a**), *m*-(trifluoromethyl)phenyl (**8a**)] and their reactions with aryl Grignard reagents XMgBr to give **5b–8b** [X = *p*-(trifluoromethyl)phenyl] and **5c** (R = 3,5-difluorophenyl) are described. The characterization of all compounds by UV-vis, FT-IR, and ¹H and ¹³C NMR spectroscopy was performed. The hypsochromic shift of all bands in the absorption spectra of complexes **5a–8a** is observed in the sequence **6a** < **5a** < **7a** ≈ **8a**. This is associated with the increasing electron-withdrawing character of the aryl substituents in the periphery of the tetraazaporphyrin macrocycle. Compounds **8a,b** are very good soluble in organic solvents with **8a** exhibiting the higher photochemical stability among the various synthesized species. The optical limiting (OL) properties of the complexes have been studied and correlated with the structure of the

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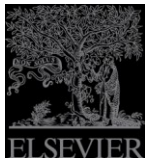
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