

Title (en)  
NOVEL COMBINATIONS OF ANTIBACTERIAL NITROGENOUS HETEROCYCLIC COMPOUNDS WITH OTHER ANTIBACTERIAL COMPOUNDS, AND USE THEREOF AS DRUGS

Title (de)  
NEUE KOMBINATIONEN ANTIKÄTERIELLER, STICKSTOFFHALTIGER HETEROCYCLISCHER VERBINDUNGEN MIT ANDEREN ANTIKÄTERIELLEN VERBINDUNGEN, UND DEREN VERWENDUNG ALS ARZNEIMITTEL

Title (fr)  
NOUVELLES COMBINAISONS DE COMPOSÉS HETEROCYCLIQUES AZOTES ANTIBACTÉRIENS AVEC D'AUTRES COMPOSÉS ANTIBACTÉRIENS ET LEUR UTILISATION COMME MÉDICAMENTS

Publication  
**EP 2344500 A1 20110720 (FR)**

Application  
**EP 09786281 A 20090929**

Priority  
• IB 2009006992 W 20090929  
• FR 0805618 A 20081010

Abstract (en)  
[origin: US2010092443A1] The invention relates to the combination of nitrogenated heterocyclic antibacterial compounds of formula (I) with other antibacterial compounds and the use of same as drugs. The nitrogenated heterocyclic compounds are of general formula (I) wherein R1 represents a (CH<sub>2</sub>)<sub>n</sub>-NH<sub>2</sub> or (CH<sub>2</sub>)<sub>n</sub>-NHR radical, where R is a (C<sub>1</sub>-C<sub>6</sub>) alkyl and n is equal to 1 or 2; R<sub>2</sub> represents a hydrogen atom; R<sub>3</sub> and R<sub>4</sub> together form an aromatic nitrogenated heterocycle with 5 apexes with 1, 2 or 3 nitrogen atoms optionally substituted by one or several R' groups, R' being selected in the group composed of a hydrogen atom and the alkyl radicals with 1 to 6 carbon atoms, in free form, as zwitterions, and in the form of salts of pharmaceutically acceptable inorganic or organic bases and acids. The other antibacterial compound is selected among the group comprised of beta-lactams, monobactams or penicillins, if needed combined with a beta lactamases inhibitor, aminoglycosides, glycylcyclines, tetracyclines, quinolones, glycopeptides, lipopeptides, macrolides, ketolides, lincosamides, streptogramins, oxazolidinones, polymyxins and other compounds known to have therapeutic activity on Pseudomonas aeruginosa and Enterobacteriaceae.

IPC 8 full level  
**C07D 47/18** (2006.01); **A61K 31/551** (2006.01); **A61P 31/04** (2006.01)

CPC (source: EP KR US)  
**A61K 31/5513** (2013.01 - KR); **A61K 31/553** (2013.01 - KR); **A61P 31/00** (2017.12 - EP); **A61P 31/04** (2017.12 - EP); **A61P 43/00** (2017.12 - EP);  
**C07D 47/18** (2013.01 - EP US); **C07D 487/08** (2013.01 - KR); **Y02A 50/30** (2017.12 - EP)

Citation (search report)  
See references of WO 2010041112A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**US 2010092443 A1 20100415**; AR 073771 A1 20101201; AU 2009302153 A1 20100415; BR PI0919812 A2 20151222;  
BR PI0919812 A8 20161101; CA 2740035 A1 20100415; CL 2011000783 A1 20120706; CN 102216301 A 20111012; CN 102216301 B 20141210;  
CO 6361930 A2 20120120; EA 201170532 A1 20111230; EC SP11010973 A 20110630; EP 2344500 A1 20110720; FR 2936951 A1 20100416;  
FR 2936951 B1 20101203; IL 212180 A0 20110630; JP 2012505196 A 20120301; KR 20110067148 A 20110621; MX 2011003812 A 20110729;  
NZ 592165 A 20121221; PA 8845401 A1 20100526; PE 20110392 A1 20110611; TW 201026697 A 20100716; UY 32168 A 20100430;  
WO 2010041112 A1 20100415; ZA 201102498 B 20130725

DOCDB simple family (application)  
**US 53586509 A 20090805**; AR P090103834 A 20091005; AU 2009302153 A 20090929; BR PI0919812 A 20090929; CA 2740035 A 20090929;  
CL 2011000783 A 20110408; CN 200980146340 A 20090929; CO 11043791 A 20110408; EA 201170532 A 20090929;  
EC SP11010973 A 20110411; EP 09786281 A 20090929; FR 0805618 A 20081010; IB 2009006992 W 20090929; IL 21218011 A 20110406;  
JP 2011530584 A 20090929; KR 20117010169 A 20090929; MX 2011003812 A 20090929; NZ 59216509 A 20090929; PA 8845401 A 20091009;  
PE 2011000865 A 20090929; TW 98133951 A 20091007; UY 32168 A 20091008; ZA 201102498 A 20110405