

Title (en)
NOVEL METHOD FOR THE SYNTHESIS OF IVABRADINE AND THE PHARMACEUTICALLY ACCEPTABLE ACID ADDITION SALTS THEREOF

Title (de)
NEUARTIGES VERFAHREN ZUR SYNTHESE VON IVABRADIN UND PHARMAZEUTISCH AKZEPTALEN SÄUREADDITIONSSALZEN DARAUSS

Title (fr)
NOUVEAU PROCÉDE DE SYNTHÈSE DE L'IVABRADINE ET DE SES SELS D'ADDITION A UN ACIDE PHARMACEUTIQUEMENT ACCEPTABLE

Publication
EP 2393784 A1 20111214 (FR)

Application
EP 10707068 A 20100203

Priority
• FR 2010000080 W 20100203
• FR 0900457 A 20090204

Abstract (en)
[origin: WO2010089475A1] The invention relates to a method for the synthesis of ivabradine having formula (I) and the pharmaceutically acceptable acid addition salts thereof.

IPC 8 full level
C07D 223/16 (2006.01); **A61K 31/55** (2006.01); **A61P 9/04** (2006.01); **A61P 9/06** (2006.01); **A61P 9/10** (2006.01)

CPC (source: EP KR US)
A61K 31/55 (2013.01 - KR); **A61P 9/00** (2017.12 - EP); **A61P 9/04** (2017.12 - EP); **A61P 9/06** (2017.12 - EP); **A61P 9/10** (2017.12 - EP); **C07D 223/16** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2010089475A1

Citation (examination)
REIFFEN M ET AL: "Specific bradycardic agents. 1. Chemistry, pharmacology, and structure-activity relationships of substituted benzazepinones, a new class of compounds exerting antiischaemic properties", JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 33, no. 5, 1 May 1990 (1990-05-01), pages 1496 - 1504, XP002205593, ISSN: 0022-2623, DOI: 10.1021/JM00167A033

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)
FR 2941695 A1 20100806; FR 2941695 B1 20110218; AR 075227 A1 20110316; AU 2010210054 A1 20110804; AU 2010210054 B2 20120322; BR PI1008841 A2 20200526; CA 2750089 A1 20100812; CA 2750089 C 20131008; CN 102300849 A 20111228; EA 019465 B1 20140331; EA 201101147 A1 20120330; EP 2393784 A1 20111214; GE P20135960 B 20131111; JP 2012516880 A 20120726; JP 5563600 B2 20140730; KR 20110112467 A 20111012; MA 33027 B1 20120201; MX 2011007978 A 20110815; MY 156630 A 20160315; NZ 594087 A 20130328; SG 172913 A1 20110829; UA 101091 C2 20130225; US 2011294999 A1 20111201; US 8415468 B2 20130409; WO 2010089475 A1 20100812; ZA 201105172 B 20120926

DOCDB simple family (application)
FR 0900457 A 20090204; AR P100100290 A 20100203; AU 2010210054 A 20100203; BR PI1008841 A 20100203; CA 2750089 A 20100203; CN 201080006148 A 20100203; EA 201101147 A 20100203; EP 10707068 A 20100203; FR 2010000080 W 20100203; GE AP2010012356 A 20100203; JP 2011548741 A 20100203; KR 20117020545 A 20100203; MA 34066 A 20110802; MX 2011007978 A 20100203; MY PI2011700105 A 20100203; NZ 59408710 A 20100203; SG 2011049913 A 20100203; UA A201110459 A 20100203; US 201013138333 A 20100203; ZA 201105172 A 20110713