

Title (en)

CONTROLLED DELIVERY OF BISPHOSPHONATES

Title (de)

KONTROLIERTE VERABREICHUNG VON BISPHOSPHONATEN

Title (fr)

ADMINISTRATION REGULEE DE BISPHOSPHONATES

Publication

EP 1210138 A4 20030507 (EN)

Application

EP 00928260 A 20000419

Priority

- US 0010696 W 20000419
- US 13072899 P 19990422

Abstract (en)

[origin: WO0064516A1] A method for controlled delivery of bisphosphonates for treatment of osteoporosis, Paget's disease and other bone diseases is described. The method involves the use of an implantable device, which delivers pharmaceutically effective amounts of the bisphosphonates in the absence of many of the side effects of oral dosing.

IPC 1-7

A61K 31/66; A61K 9/00; A61K 47/32; A61L 27/12; A61L 27/54

IPC 8 full level

A61K 9/00 (2006.01); A61K 47/32 (2006.01)

CPC (source: EP)

A61K 9/0024 (2013.01); A61K 31/663 (2013.01); A61K 47/32 (2013.01); A61K 9/0092 (2013.01)

Citation (search report)

- [X] US 4753652 A 19880628 - LANGER ROBERT [US], et al
- [X] US 5733564 A 19980331 - LEHTINEN RISTO TAPANI [FI]
- [X] US 5338731 A 19940816 - BREUER ELI [IL], et al
- [X] DATABASE WPI Section Ch Week 199632, Derwent World Patents Index; Class B07, AN 1996-316679, XP002233498
- [X] VYAVAHARE N R ET AL: "Synergism of calcium-ethanehydroxybisphosphonate (CaEHBP) and FeCl₃: controlled release polymers for preventing calcification of bioprosthetic aortic wall", JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 34, no. 2, 1 May 1995 (1995-05-01), pages 97 - 108, XP004037508, ISSN: 0168-3659
- [X] PATASHNIK S ET AL: "PREPARATION AND EVALUATION OF CHITOSAN MICROSPHERES CONTAINING BISPHOSPHONATES", JOURNAL OF DRUG TARGETING, HARWOOD ACADEMIC PUBLISHERS GMBH, DE, vol. 4, no. 6, 1997, pages 371 - 380, XP000874480, ISSN: 1061-186X
- [X] JOHNSTON T P ET AL: "SITE-SPECIFIC DELIVERY OF ETHANEHYDROXY DIPHOSPHONATE FROM REFILLABLE POLYURETHANE RESERVOIRS TO INHIBIT BIOPROSTHETIC TISSUE CALCIFICATION", JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 25, no. 3, 1 June 1993 (1993-06-01), pages 227 - 240, XP000369909, ISSN: 0168-3659
- [X] GOLOMB G ET AL: "CHARACTERIZATION AND ANTICALCIFICATION EFFECTS OF IMPLANTABLE POLYURETHANE MATRICES CONTAINING AMORPHOUS DISPERSION OF BISPHOSPHONIC ACID", CLINICAL MATERIALS, ELSEVIER, GB, vol. 8, no. 1/2, 1991, pages 33 - 42, XP002063577, ISSN: 0267-6605
- [X] SABOKBAR A ET AL: "Bisphosphonates in bone cement inhibit PMMA particle induced bone resorption", ANNALS OF THE RHEUMATIC DISEASES, BRITISH MEDICAL ASSOCIATION, LONDON, GB, vol. 57, no. 10, October 1998 (1998-10-01), pages 614 - 618, XP002953301, ISSN: 0003-4967
- [PX] DENISSEN H ET AL: "ALVEOLAR BONE RESPONSE TO SUBMERGED BISPHOSPHONATE-COMPLEXED HYDROXYAPATITE IMPLANTS", JOURNAL OF PERIODONTOLOGY, AMERICAN ACADEMY OF PERIODONTOLOGY, CHICAGO, IL, US, vol. 71, no. 2, February 2000 (2000-02-01), pages 279 - 286, XP008010275, ISSN: 0022-3492
- [X] GOLOMB G ET AL: "CONTROLLED RELEASE OF DIPHOSPHONATE TO INHIBIT BIOPROSTHETIC HEART VALVE CALCIFICATION: DOSE-RESPONSE AND MECHANISTIC STUDIES", JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 4, no. 3, 1986, pages 181 - 194, XP000653819, ISSN: 0168-3659
- See references of WO 0064516A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0064516 A1 20001102; AU 4652100 A 20001110; CA 2370769 A1 20001102; EP 1210138 A1 20020605; EP 1210138 A4 20030507

DOCDB simple family (application)

US 0010696 W 20000419; AU 4652100 A 20000419; CA 2370769 A 20000419; EP 00928260 A 20000419