

In The Name of Allah



Patent Search Databases

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pooriagill@yahoo.com

Need for Performing A Search



According to
Thompson Reuters

“80% of all available technical information is published in Patents and often nowhere else.”

Source of Information

What is Patent?

- ❑ Patent, is a legal document granted by the government giving an inventor the exclusive right to make, use, and sell an invention for a specified number of years.
- ❑ Patents are also available for significant improvements on previously invented items.

Goal of Patent System!

- ❖ The goal of the patent system is to encourage inventors to advance the state of technology by awarding them special rights to benefit from their inventions.
- ❖ Books, movies, and works of art cannot be patented, but protection is available for such items under the law of copyright.
- ❖ Patent law is one branch of the larger legal field known as **intellectual property (IP)**, which also includes trademark and copyright law.

What is patentable?

To qualify for a patent, the invention must meet three basic tests:

- **First**, it must be novel, meaning that the invention did not previously exist.
- **Second**, the invention must be non-obvious, which means that the invention must be a significant improvement to existing technology. Simple changes to previously known devices do not comprise a patentable invention.
- **Finally**, the proposed invention must be useful. Legal experts commonly interpret this to mean that no patent will be granted for inventions that can only be used for an illegal or immoral purpose.

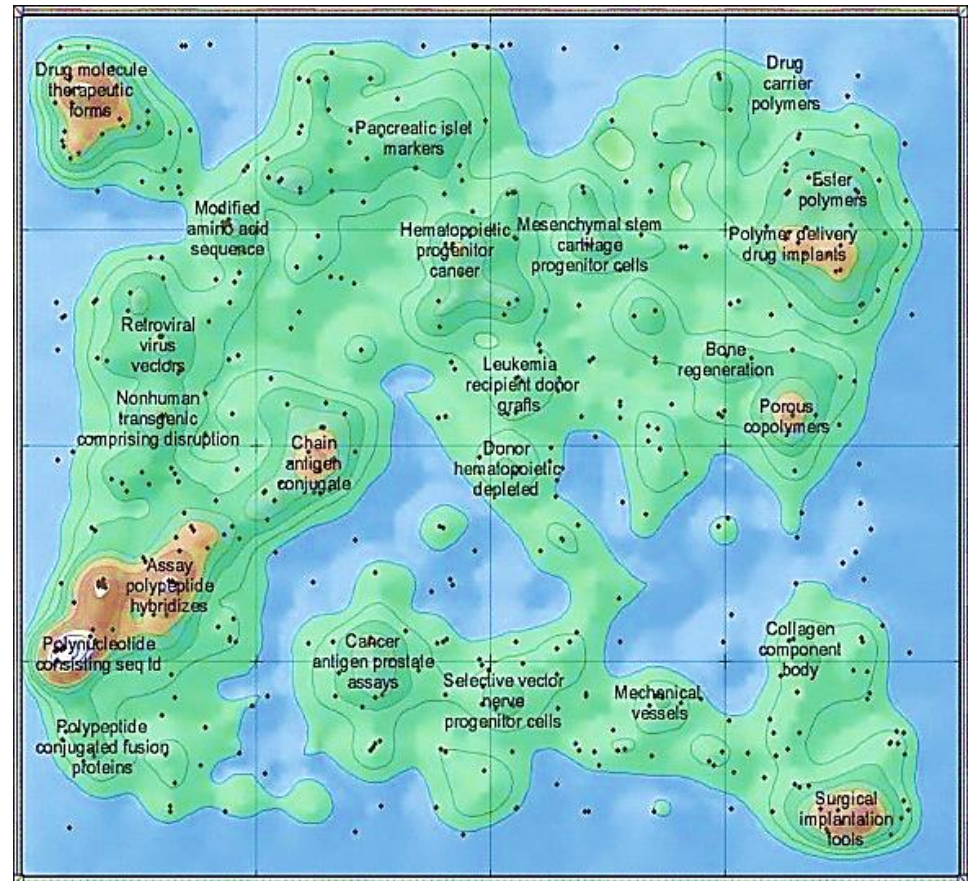
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- Patent Validity / Expiration
- Legal Status
- Infringement Analysis – to Avoid / to Sue
- Opposition
- Patent Watch / Monitor Patent
- Potential Partners for Licensing In/ Licensing Out
- Working Around
- Patent Family



Patent Search

- Patentability Search
- Freedom To Market Opinion Search
- Patent Landscape Search
- Patent Validity Search



Types Of Patent Search

- Number Searching
- Name Searching
- Subject Searching
- Legal Status Searching
- IPC Classification based Searching

Number Searching

- Patent / Patent Application Number and
- **Country of Issue**
- Common Format - **Country Code** followed by a seven or eight digit number
 - Eg. **GB**2013456, **WO**0213591, **DE**19944652

Number Searching

Cont.....

Document Kind Code - Number followed by a letter

(A, B, T, etc.)

- **Indicates the Publication Stage**
- Generally
 - ‘A’ first stage of publication (eg US 2002-0002180 A1) &
 - ‘B’ Granted Patent (eg US 6,432,966 B)
- **WIPO**
 - A1- Application & Search Report (eg WO/2006/114709A1)
 - A2 - Only Application (eg WO/2003/020206A2)
 - A3 - Only Search Report (eg WO/2003/020206A3)
 - A4 - Search report by the EPO added to Search report done by the PCT

Name Searching

- Inventor(s)
 - Smita Govekar , Nandini Khedekar, etc.
- Company and Organization
 - Cipla, IPCA, Strides, Pfizer, etc.

Subject Searching

- **Key words**

- Titles
- Abstract
- Claims, etc.

- **Classification codes:**

- The International Patent Classification
- Other classification schemes
 - ECLA (The European Classification)
 - US classification
 - British classification

Subject Searching

Cont.....

- **The International Patent Classification**

The IPC divides patentable technology into 8 key areas:

Section A: Human Necessities

Section B: Performing Operations,
Transporting

Section C: Chemistry, Metallurgy

Section D: Textiles, Paper

Section E: Fixed Constructions

Section F: Mechanical Engineering,
Lighting, Heating, Weapons

Section G: Physics

Section H: Electricity

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[SECTION D – TEXTILES; PAPER](#)

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[SECTION F – MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING](#)

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International Patent Classification (WIPO)

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SECTION A – HUMAN NECESSITIES

AGRICULTURE

[A 01](#) AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING

FOODSTUFFS; TOBACCO

[A 21](#) BAKING; EDIBLE DOUGHS

[A 22](#) BUTCHERING; MEAT TREATMENT; PROCESSING POULTRY OR FISH

[A 23](#) FOODS OR FOODSTUFFS; THEIR TREATMENT, NOT COVERED BY OTHER CLASSES

[A 24](#) TOBACCO; CIGARS; CIGARETTES; SMOKERS' REQUISITES

PERSONAL OR DOMESTIC ARTICLES

[A 41](#) WEARING APPAREL

[A 42](#) HEADWEAR

[A 43](#) FOOTWEAR

[A 44](#) HABERDASHERY; JEWELLERY

[A 45](#) HAND OR TRAVELLING ARTICLES

[A 46](#) BRUSHWARE

[A 47](#) FURNITURE (arrangements of seats for, or adaptation of seats to, vehicles [B60N](#)); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders [E06C](#))

HEALTH; AMUSEMENT

[A 61](#) MEDICAL OR VETERINARY SCIENCE; HYGIENE ←

[A 62](#) LIFE-SAVING; FIRE-FIGHTING (ladders [E06C](#))

[A 63](#) SPORTS; GAMES; AMUSEMENTS

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HUMAN NECESSITIES	A <input type="checkbox"/>
AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING	A01 <input type="checkbox"/>
BAKING; EDIBLE DOUGHS	A21 <input type="checkbox"/>
BUTCHERING; MEAT TREATMENT; PROCESSING POULTRY OR FISH	A22 <input type="checkbox"/>
FOODS OR FOODSTUFFS; THEIR TREATMENT, NOT COVERED BY OTHER CLASSES	A23 <input type="checkbox"/>
TOBACCO; CIGARS; CIGARETTES; SMOKERS' REQUISITES	A24 <input type="checkbox"/>
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MEDICAL OR VETERINARY SCIENCE; HYGIENE	A61 <input type="checkbox"/>
LIFE-SAVING; FIRE-FIGHTING (ladders E06C)	A62 <input type="checkbox"/>
▲ top SPORTS; GAMES; AMUSEMENTS	A63 <input type="checkbox"/>

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 March 2003 (13.03.2003)

PCT

(10) International Publication Number
WO 03/020206 A3

(51) International Patent Classification?: **A61K 31/7072**,
31/551

(21) International Application Number: PCT/US02/26675

(22) International Filing Date: 21 August 2002 (21.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/316,745 31 August 2001 (31.08.2001) US

(71) Applicant: **BRISTOL-MYERS SQUIBB COMPANY**
[US/US]; P.O. Box 4000, Princeton, NJ 08543-4000 (US).

(72) Inventor: **BECHTOLD, Clifford, M.**; 17 Streamview
Circle, Guilford, CT 06437 (US).

(74) Agent: **MORSE, David, M.**; Bristol-Myers Squibb Com-
pany, P.O. Box 4000, Princeton, NJ 08543-4000 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
2 October 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 03/020206 A3

(54) Title: USE OF ATAZANAVIR IN HIV THERAPY

(57) Abstract: A method for reducing elevated plasma LDL and/or triglyceride levels in an HIV-infected patient is disclosed. In this method, atazanavir (BMS-232632) can be used to treat HIV infection in patients exhibiting elevated plasma LDL-cholesterol and/or triglyceride levels, can be substituted for an offending HIV protease inhibitor used in such therapy, or can be used in combination with an HIV protease inhibitor metabolized by cytochrome P450 monooxygenase.

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AND	Inventor Name	Is Empty:	<input checked="" type="radio"/> N/A <input type="radio"/> Yes <input type="radio"/> No	

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USPTO



United States Patent and Trademark Office
An Agency of the Department of Commerce

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Keyword(s) in title or abstract: **i** hair

Publication number: **i** WO2008014520

Application number: **i** DE19971031696

Priority number: **i** WO1995US15925

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Atazanavir, marketed under the trade name Reyataz by Bristol Myers, (formerly known as BMS-232632) is an antiretroviral drug of the protease inhibitor (PI) ...

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Learn about the prescription medication Reyataz (**Atazanavir** Sulfate), drug uses, dosage, side effects, drug interactions, warnings, and patient labeling.

www.rxlist.com/reyataz-drug.htm - [Cached](#) - [Similar](#)

[atazanavir - HIV: Health and Medical Information About HIV and ...](#)

DRUG CLASS AND MECHANISM: **Atazanavir** is an oral medication that is used for treating infections caused by the human immunodeficiency virus (HIV). ...

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[Reyataz \(Atazanavir\)](#)

The US Food and Drug Administration (FDA) approved **atazanavir** on June 20, 2003 for the treatment of HIV-1 infection in combination with other antiretroviral ...

www.hivandhepatitis.com/hiv_and_aids/atazanavir_1.html - [Cached](#) - [Similar](#)

[Atazanavir \(Reyataz\) | aidsinfonet.org | The AIDS InfoNet](#)

Atazanavir, also called Reyataz, is a drug used as part of antiretroviral therapy (ART). **Atazanavir** is a protease inhibitor manufactured by Bristol-Myers ...

www.aidsinfonet.org/fact_sheets/view/447 - [Cached](#) - [Similar](#)

[Atazanavir: MedlinePlus Drug Information](#)

1 Jan 2009 ... Features information about dosage, usage, warnings, and side effects.

www.nlm.nih.gov/medlineplus/druginfo/meds/a603019.html - [Cached](#) - [Similar](#)

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Active Ingredient Search Results from "OB_Rx" table for query on "atazanavir."

Appl No	TE Code	RLD	Active Ingredient	Dosage Form; Route	Strength	Proprietary Applicant Name
021567		No	ATAZANAVIR SULFATE	CAPSULE; ORAL	EQ 100MG BASE REYATAZ	BRISTOL MYERS SQUIBB
021567		No	ATAZANAVIR SULFATE	CAPSULE; ORAL	EQ 150MG BASE REYATAZ	BRISTOL MYERS SQUIBB
021567		No	ATAZANAVIR SULFATE	CAPSULE; ORAL	EQ 200MG BASE REYATAZ	BRISTOL MYERS SQUIBB
021567		Yes	ATAZANAVIR SULFATE	CAPSULE; ORAL	EQ 300MG BASE REYATAZ	BRISTOL MYERS SQUIBB

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FDA/Center for Drug Evaluation and Research

Office of Generic Drugs

Division of Labeling and Program Support

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Search results from the "OB_Rx" table for query on "021567."

Active Ingredient:	ATAZANAVIR SULFATE
Dosage Form;Route:	CAPSULE; ORAL
Proprietary Name:	REYATAZ
Applicant:	BRISTOL MYERS SQUIBB
Strength:	EQ 100MG BASE
Application Number:	021567
Product Number:	001
Approval Date:	Jun 20, 2003
Reference Listed Drug	No
RX/OTC/DISCN:	RX
TE Code:	
Patent and Exclusivity Info for this product:	View



Active Ingredient:	ATAZANAVIR SULFATE
Dosage Form;Route:	CAPSULE; ORAL
Proprietary Name:	REYATAZ
Applicant:	BRISTOL MYERS SQUIBB
Strength:	EQ 150MG BASE
Application Number:	021567
Product Number:	002
Approval Date:	Jun 20, 2003
Reference Listed Drug	No
RX/OTC/DISCN:	RX
TE Code:	

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Patent and Exclusivity Search Results from query on Appl No 021567 Product 004 in the OB_Rx list.

Patent Data

Appl No	Prod No	Patent No	Patent Expiration	Drug Substance Claim	Drug Product Claim	Patent Use Code	Delist Requested
N021567	004	5849911	Jun 20, 2017	Y	Y	U - 167	
N021567	004	6087383	Dec 21, 2018	Y	Y		

Exclusivity Data

Appl No	Prod No	Exclusivity Code	Exclusivity Expiration
N021567	004	D - 116	Sep 30, 2011
N021567	004	D - 130	Feb 4, 2014

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Keyword(s) in title: **i** plastic and bicycle

Keyword(s) in title or abstract: **i** hair

Publication number: **i** WO2008014520

Application number: **i** DE19971031696

Priority number: **i** WO1995US15925

Publication date: **i** yyyyymmdd

Applicant(s): **i** Institut Pasteur

Inventor(s): **i** Smith

European Classification (ECLA): **i** F03G7/10

International Patent Classification (IPC): **i** H03M1/12

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	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
	CHOUDHURY ANUP AVIJIT [IN] JAISWAL ASHISH [IN] (+2)		A61K31/4402 A61K9/20H2 (+3)	A61K33/00 B29B9/10	US2012121722 (A1) 2012-05-17	2008-12-18

2. DRY PROCESSING OF **ATAZANAVIR**

	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
	MEERGANS DOMINIQUE [DE] STEFAN RALPH [DE]	RATIOPHARM GMBH [DE] MEERGANS DOMINIQUE [DE] (+1)		A61K31/4402 A61K9/16 A61K9/20	WO2012041488 (A1) 2012-04-05	2010-09-28

3. NOVEL POLYMORPH OF **ATAZANAVIR** SULFATE

	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
	PARTHASARADHI REDDY BANDI [IN] RATHNAKAR REDDY KURA [IN] (+3)	HETERO RESEARCH FOUNDATION [IN]	C07D213/42	A61K31/4418 C07D213/56	US2012015987 (A1) 2012-01-19	2009-01-12

4. **ATAZANAVIR** FORMULATIONS

	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
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US2012121722 (A1)

Bibliographic data

Description

Claims

Mosaics

Original document

Cited documents

Citing documents

INPADOC legal status

INPADOC patent family

Bibliographic data: US2012121722 (A1) — 2012-05-17

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ATAZANAVIR FORMULATIONS

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Inventor(s): CHOUDHURY ANUP AVIJIT [IN]; JAISWAL ASHISH [IN]; RAFI KHALID [IN]; RAGHUVANSHI RAJEEV [IN] ±

Applicant(s):

Classification: - international: [A61K33/00](#); [B29B9/10](#)

- European: [A61K31/4402](#); [A61K9/20H2](#); [A61K9/20H4B](#); [A61K9/20H6B](#); [A61K9/20K2](#)

Application number: US200913140154 20091217

Priority number(s): IN2008DE02894 20081218; WO2009IB55830 20091217

Also published as: [WO2010070611 \(A1\)](#)

Abstract of US2012121722 (A1)

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The present invention relates to formulations comprising atazanavir and a silicate, and the process of preparation thereof, wherein the silicate is present in the extragranular portion.

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US2012121722 (A1)

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1. ATAZANAVIR FORMULATIONS

★ Inventor: CHOUDHURY ANUP AVIJIT [IN] RAFI KHALID [IN] (+1)	Applicant: RANBAXY LAB LTD [IN] JAISWAL ASHISH [IN]	EC: A61K31/4402 A61K9/20H2 (+3)	IPC: A61K31/4402 A61K9/20	Publication info: EP2391350 (A1) 2011-12-07	Priority date: 2008-12-18
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2. ATAZANAVIR FORMULATIONS

★ Inventor: CHOUDHURY ANUP AVIJIT [IN] JAISWAL ASHISH [IN] (+2)	Applicant:	EC: A61K31/4402 A61K9/20H2 (+3)	IPC: A61K33/00 B29B9/10	Publication info: US2012121722 (A1) 2012-05-17	Priority date: 2008-12-18
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3. ATAZANAVIR FORMULATIONS

★ Inventor: CHOUDHURY ANUP AVIJIT [IN] RAFI KHALID [IN] (+1)	Applicant: RANBAXY LAB LTD [IN] CHOUDHURY ANUP AVIJIT [IN] (+2)	EC: A61K31/4402 A61K9/20H2 (+3)	IPC: A61K31/4402 A61K9/20	Publication info: WO2010070611 (A1) 2010-06-24	Priority date: 2008-12-18
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Title	Pub. Date	Int. Class	App. Num	Applicant
1. (WO 2010/107831) NANOCARRIER COMPOSITIONS AND METHODS	23.09.2010	A61K 47/42	PCT/US2010/027532	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

This invention provides multimeric nanocarrier for in vivo delivery of a bioactive agent, comprising at least two peptide monomers reversibly or irreversibly linked with one or more of said bioactive agents, wherein said two or more of said peptide monomers are covalently linked by a biodegradable difunctional moiety, as well as methods of using this nanocarrier.

2. (WO 2010/079497) NOVEL POLYMORPH OF ATAZANAVIR SULFATE	15.07.2010	C07D 213/56	PCT/IN2009/000034	HETERO RESEARCH FOUNDATION
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**(WO/2010/107831) NANOCARRIER COMPOSITIONS AND METHODS**

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Description

Claims

National Phase

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Pub. No.: WO/2010/107831 **International Application No.:** PCT/US2010/027532
Publication Date: 23.09.2010 **International Filing Date:** 16.03.2010

IPC: *A61K 47/42* (2006.01)

Applicants: RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY [US/US]; Old Queens, Somerset Street New Brunswick, NJ 08903 (US) (*All Except US*).
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STEIN, Stanley [US/US]; (US) (*US Only*).
GUNASEELAN, Simi [IN/US]; (US) (*US Only*).
POOYAN, Shahriar [US/US]; (US) (*US Only*).
PALOMBO, Matthew, Sean [US/US]; (US) (*US Only*).
ZHANG, Xiaoping [US/US]; (US) (*US Only*).

Inventors: SINKO, Patrick, J.; (US).
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GUNASEELAN, Simi; (US).
POOYAN, Shahriar; (US).
PALOMBO, Matthew, Sean; (US).
ZHANG, Xiaoping; (US).

Agent: BUTCH, Peter, J, III.; Fox Rothschild LLP 997 Lenox Drive, Bldg. #3 Lawrenceville, NJ 08648 (US) .

Priority Data: 61/160,575 16.03.2009 US

Title: NANOCARRIER COMPOSITIONS AND METHODS

Abstract: This invention provides multimeric nanocarrier for in vivo delivery of a bioactive agent, comprising at least two peptide monomers reversibly or irreversibly linked with one or more of said bioactive agents, wherein said two or more of said peptide monomers are covalently linked by a biodegradable difunctional moiety, as well as methods of using this nanocarrier.

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