

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3824876

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZEN-BIO, INC.	03/06/2001

RECEIVING PARTY DATA

Name:	ARTECEL SCIENCES, INC.
Street Address:	4819 EMPEROR BLVD.
Internal Address:	HQ GLOBAL WORPLACES
City:	DURHAM
State/Country:	NORTH CAROLINA
Postal Code:	27703

PROPERTY NUMBERS Total: 11

Property Type	Number
Patent Number:	8486700
Patent Number:	7179649
Patent Number:	9200255
Application Number:	14941399
Patent Number:	6841150
Patent Number:	7078232
Patent Number:	7033587
Patent Number:	8048673
Application Number:	11450213
Patent Number:	8911994
Application Number:	14570127

CORRESPONDENCE DATA

Fax Number: (215)656-2498

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: IP GROUP OF DLA PIPER LLP (US)

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PATENT

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER: COG-1-B

NAME OF SUBMITTER: PAUL CARANGO

SIGNATURE: /Paul Carango/

DATE SIGNED: 04/11/2016

Total Attachments: 7

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ASSIGNMENT

THIS ASSIGNMENT, made by ZEN-BIO, INC., a corporation of the state of North Carolina, having its principal place of business at 3200 Chapel Hill-Nelson Blvd., Suite 102, Research Triangle Park, NC, 27709, hereinafter referred to as Assignor;

WITNESSETH: That,

WHEREAS, as shown by the records of the United States Patent and Trademark Office, Assignor has previously acquired all right, title, and interest in and to the United States patent and/or patent applications identified on the attached Schedule and in and to all corresponding patents and/or patent applications worldwide, and in and to the inventions represented thereby (all hereinafter referred to as the "Patents"); and,

WHEREAS ARTECEL SCIENCES, INC., a corporation of the state of Delaware, having its principal place of business at HQ Global Workplaces, 4819 Emperor Blvd., Durham, NC 27703, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in and to said Patents and in and to the inventions represented thereby; and

WHEREAS, the parties have agreed to the Assignment hereinafter set forth;

NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the above Assignor has sold and by these presents does hereby sell, assign, transfer, and convey unto the said Assignee, its successors and assigns, its entire right, title, and interest in and to said Patents and the inventions represented thereby, and any and all continuations, continuations-in-part, or divisions thereof, and any and all Letters Patent or reissues, reexaminations, or extensions thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim priority in all foreign countries in accordance with the International Convention; all rights corresponding to said Patents in foreign countries throughout the world; and all of its rights to sue for past infringement of said Patents worldwide, together with all claims for damage by reason of past infringement of said Patents, with the right to sue for, and collect the same for Assignee's own use and enjoyment; all to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made.

From time to time after the date hereof, at the request of either party hereto, and at the expense of the party so requesting, each of the parties hereto shall execute and deliver to such

requesting party such documents and take such other action as such requesting party may reasonably request in order to consummate more effectively the transactions contemplated hereby.

The Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, it possesses full title to the inventions and Patents thereon as earlier identified, and that it has the unencumbered right and authority to make this assignment.

IN WITNESS WHEREOF, the Assignor has caused this assignment to be executed this 6th day of March, 2001.

ZEN-BIO, INC.
By: [Signature] (SEAL)

Its: President

STATE OF North Carolina
COUNTY OF Durham

This 6th day of March, 2001, personally came before me, Brenda J Stecher a Notary Public for said County and State, who, being by me duly sworn, says that he is President of ZEN-BIO, INC., a North Carolina corporation, and that the seal affixed to the foregoing instrument in writing is the corporate seal of said company, and that said writing was signed and sealed by him in behalf of said corporation by its authority duly given. And the said Peter Piepacini acknowledged the said writing to be the act and deed of said corporation.

Witness my hand and official seal, this the 6th day of March, 2001.

(Official Seal)

[Signature]
Notary Public

My commission expires: July 23 2005

Schedule of Applications/U.S. Patents for Assignment From Zen-Bio, Inc. to Artcel Sciences, Inc.

Effective January 2, 2001

Atty. Docket No.	Patent No./Issue Date	Title	Appl. No.	Filing Date
5750-4-1 173755		Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof	PCT/US98/25449	12/1/98
5750-4-2 Canada (197927)		Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof	2,312,847	12/1/98
5750-4-3 China (197930)		Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof	98811794.0	12/1/98
5750-4-4 EP (197931)		Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof	98960593.6	12/1/98
5750-4-5 Japan (197932)		Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof	2000-523321	12/1/98
5750-17 US (198374)		Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof	09/554,868	5/19/00
5750-7 (180376)	6,100,047 / 8/8/00	Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes	09/287,907	4/7/99
5750-7A (199479)		Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes	09/592,420	6/12/00
5750-7B (199481)		Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes	09/592,019	6/12/00
5750-7C (199482)		Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes	09/592,421	6/12/00

RTA012056778Y1

App. No.	Filing Date	Title	App. No.	Filing Date
5750-12 (199141)	5/17/00	The Use Of Adipose Tissue-Derived Stromal Cells For Chondrocyte Differentiation and Cartilage Repair	09/573,989	5/17/00
5750-12-1 Canada (200125)	8/18/00	Use Of Adipose Tissue-Derived Stromal Cells For Chondrocyte Differentiation And Cartilage Repair	2,316,413	8/18/00
5750-12-2 China (200126)	8/21/00	Use Of Adipose Tissue-Derived Stromal Cells For Chondrocyte Differentiation and Cartilage Repair	00128981.0	8/21/00
5750-12-3 BP (200127)	8/21/00	Use Of Adipose Tissue-Derived Stromal Cells For Chondrocyte Differentiation And Cartilage Repair	00307155.2	8/21/00
5750-12-4 Japan (200128)	8/21/00	Use Of Adipose Tissue-Derived Stromal Cells For Chondrocyte Differentiation And Cartilage Repair	2000-250009	8/21/00
5750-12-5 Taiwan (200129)	8/08/00	Use Of Adipose Tissue-Derived Stromal Cells For Chondrocyte Differentiation And Cartilage Repair	89115958	8/08/00
5750-13 (202282)	8/14/00	Multiple Mesodermal Lineage Differentiation Potentials for Adipose Tissue-Derived Stromal Cells and Uses Thereof	09/638,544	8/14/00
5750-13-1 Canada (203062)	8/18/00	Multiple Mesodermal Lineage Differentiation Potentials for Adipose Tissue-Derived Stromal Cells and Uses Thereof	2,316,400	8/18/00
5750-13-2 China (203064)	8/18/00	Multiple Mesodermal Lineage Differentiation Potentials for Adipose Tissue-Derived Stromal Cells and Uses Thereof	00131695.8	8/18/00

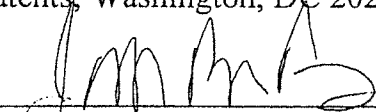
App. Docket No.	Patent No. Issue Date	Title	Appl. No.	Filing Date
5750-13-3 EP (203065)		Tissue-Derived Stromal Cells and Uses Thereof	00307153.7	8/21/00
5750-13-4 Japan (203066)		Multiple Mesodermal Lineage Differentiation Potentials for Adipose Tissue-Derived Stromal Cells and Uses Thereof	2000-249591	8/21/00
5750-15P (193598)		Pluripotent Stem Cell Potential Of Adipose Tissue - Derived Stromal Cells And Uses Thereof	60/185,338	2/26/00



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CERTIFICATE OF MAILING (37 C.F.R. 1.8a)

I hereby certify that the enclosed Recordation of Assignment, along with any paper referred to as being attached or enclosed, is being deposited with the United States Mail on the date shown below with sufficient first-class postage in an envelope to Box Assignment, Assistant Commissioner for Patents, Washington, DC 20231.



Joseph M. Bennett-Paris

Date: Dec 21, 2001

Zen-Bio to Artecel Assignments of March 6, 2001

US Patent Applications

1. 09/554,868
2. 09/573,989
3. 09/592,019
4. 09/592,420
5. 09/592,421
6. 09/638,544
7. 60/185,338

US Patents

8. 6,100,047

PCT Applications

9. US98/25449 (publication:WO 99/28444)