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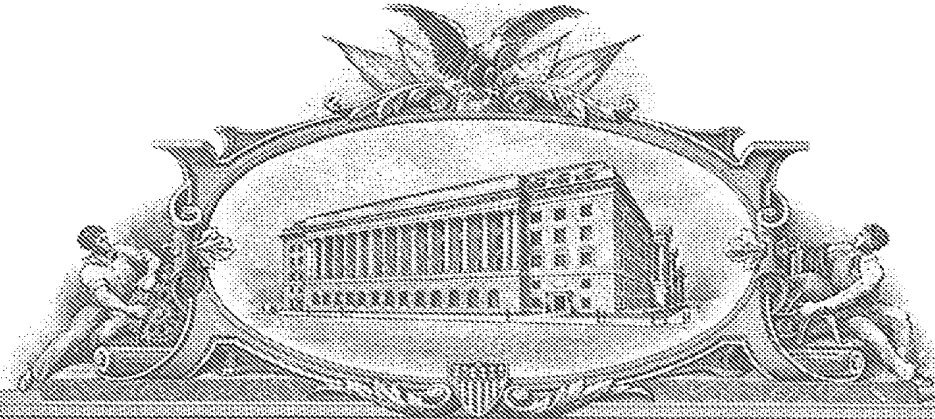
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APPLICATION NUMBER: 60/951,666

FILING DATE: July 24, 2007

RELATED PCT APPLICATION NUMBER: PCT/US08/71020

THE COUNTRY CODE AND NUMBER OF YOUR PRIORITY APPLICATION, TO BE USED FOR FILING ABROAD UNDER THE PARIS CONVENTION, IS US60/951,666



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PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 1 of 2

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. _____

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
JAMES KLEIN	LEONARD	GAINESVILLE, FL
KENNETH BOONE	WAGENER	GAINESVILLE, FL

Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (500 characters max):

POLYETHYLENE BASED BIOACTIVE AGENTS

Direct all correspondence to: **CORRESPONDENCE ADDRESS**

☒ The address corresponding to Customer Number: 23557

OR

☐ Firm or Individual Name

Address

City	State	Zip
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ENCLOSED APPLICATION PARTS (check all that apply)

☐ Application Data Sheet. See 37 CFR 1.76 ☐ CD(s), Number of CDs _____

☒ Drawing(s) Number of Sheets 10 ☐ Other (specify) _____

☒ Specification (e.g. description of the invention) Number of Pages 41

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☒ Applicant claims small entity status. See 37 CFR 1.27. \$100.00

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☐ Payment by credit card. Form PTO-2038 is attached **TOTAL FEE AMOUNT (\$)**

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PTO/SB/16 (05-07)

Approved for use through 05/31/2007. OMB 0651-0032

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☐

No.

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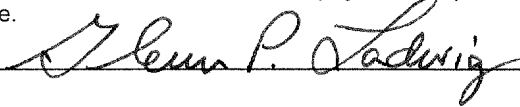
Yes, the name of the U.S. Government agency and the Government contract number are: _____

National Science Foundation grant numbers DMR-0703261 and DMR-0314110

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SIGNATURE _____



Date July 24, 2007

TYPED or PRINTED NAME Glenn P. Ladwig

REGISTRATION NO. 46,853
(if appropriate)

TELEPHONE (352)375-8100

Docket Number: UF-572P

DESCRIPTION

POLYETHYLENE BASED BIOACTIVE AGENTS

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GOVERNMENT SUPPORT

The subject matter of this application has been supported by research grants from the National Science Foundation under grant numbers DMR-0703261 and DMR-0314110. Accordingly, the government has certain rights in this invention.

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BACKGROUND OF THE INVENTION

The term "metathesis" refers to a mutual transalkylidenation of alkenes and alkynes in the presence of catalysts. Reactions of this type are employed in many industrially important processes. A review may be found in: M. Schuster, S. Blechert, *Angew. Chem.*, 1997, 109:2124; and S. Armstrong, *J. Chem. Soc., Perkin Trans.*, 1998, 1:371. Metathesis reactions include the oligomerization and polymerization of acyclic dienes (ADMET) and the synthesis of carbocycles and heterocycles having various ring sizes by ring closing metathesis (RCM). Crossed metatheses of different alkenes are also known (Brummer, O. *et al.*, *Chem. Eur. J.*, 1997, 3:441). For the aforementioned metathesis reactions, it is possible to use, for example, the ruthenium-alkylidene compounds described in WO-A-93/20111, the ruthenium-based catalyst systems described by A. W. Stumpf, E. Saive, A. Deomceau and A. F. Noels in *J. Chem. Soc., Chem. Commun.*, 1995, 1127-1128, or the catalyst systems described by P. Schwab, R. H. Grubbs and J. W. Ziller in *J. Am. Chem. Soc.*, 1996, 118, 100 (see also WO 96/04289) as catalysts. The above publications, and all other publications, published patent applications, and patents cited hereafter, are incorporated herein by reference in their entirety.

Metathesis chemistry has received much attention as a method to obtain precise structural control in polymer synthesis. Recent advances include the synthesis of polyolefin and polyolefin-like polymers through two-step procedures involving ADMET polymerization

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