

FCR 12

Office of the President
September 9, 2008

Members, Board of Trustees:

PATENT ASSIGNMENT REPORT

Recommendation: that the Board of Trustees accept the patent assignment report for the period April 1 through June 30, 2008.

Background: At its March 4, 1997 meeting, the Board of Trustees authorized the University of Kentucky Research Foundation to conduct all future copyright and patent filings and prosecutions. Quarterly reports on patent and copyright applications are to be submitted to the Finance Committee of the Board.

Action taken: Approved Disapproved Other _____

PATENT ASSIGNMENT
QUARTERLY FOR THE PERIOD APRIL 1 THROUGH JUNE 30, 2008

Patents

The following assignments on behalf of the Board of Trustees of the University of Kentucky Research Foundation have been executed:

- 1. U.S. Patent Application Serial Number: (to be assigned)**
Filed: March 31, 2008
Title: “Liposomal, ring-opened camptothecins with prolonged, site-specific delivery of active drug to solid tumors”
Inventors: Drs. Bradley Anderson, Vijay Joguparthi and Tian-Xiang Xiang (Pharmaceutical Sciences)
Technical Description: This invention relates to the field of compositions for treatment of cancer in an animal and to methods for preparing such a composition. In particular, the invention relates to a method for formulating a stable liposomal camptothecin or analog thereof, and to compositions formulated thereby.
Summary: Camptothecins are a promising class of drugs for the treatment of cancer. Unfortunately, camptothecins are unstable under normal physiological conditions and are rapidly destroyed in the bloodstream. The inventors have developed a method of preserving the stability of camptothecins introduced into a patient. In addition, this method provides controlled release of camptothecins directly to the site of a cancerous tumor.
- 2. U.S. Patent Application Serial Number: (to be assigned)**
Filed: April 3, 2008
Title: “A novel class of ferromagnetic semiconductors”
Inventors: Drs. Larysa Shlyck, Sergiy Alexandrovich, Lance Delong, Barbara Schupp-Neiwa, Rainer Neiwa (Physics and Astronomy)
Technical Description: This invention relates to single crystal and polycrystal oxoruthenates that form a novel class of ferromagnetic semiconductors with applications in spin-based field-effect transistors, spin-based light-emitting diodes, and random access memories.
Summary: The inventors have discovered a new class of semiconductors. These novel semiconductors should be useful in producing electronic components to make electronic devices that are smaller, faster, and use less energy than current electronic devices.
- 3. U.S. Patent Application Serial Number: (to be assigned)**
Filed: June 28, 2008
Title: “Carbon fiber reinforced carbon foams for repair and reconstruction of bone defects”
Inventors: Drs. Brock Marrs, Rodney Andrews and Larry Cunningham (Center for Applied Energy Research)

Technical Description: This invention relates to non-biodegradable scaffolds for use in biological applications and to a method of preparing such a scaffold for implantation.

Summary: Certain bone injuries require special measures to produce adequate healing. One such measure uses synthetic scaffolds to direct bone growth in the appropriate direction. Currently, such scaffolds used are typically biodegradable. Biodegradable scaffolds, however, do not provide sufficient mechanical support for large bone repairs. The inventors have developed a non-biodegradable material useful in repairing large bone injuries that require greater mechanical support.

Patent Activities

Fiscal year to date as of June 30, 2008

Number of Patent Applications	12
Number of Patents Issued	14
Patent Income	\$1,204,654