

MARKETING SUMMARY

File # TT9901

WURSTER'S CROWN ETHERS – A NEW CLASS OF ELECTROCHEMICALLY ACTIVE MOLECULES

SUMMARY:

Dr. John Sibert of East Carolina University's Department of Chemistry has developed methods for producing molecules containing phenylenediamine as a redox active component of macrocyclic crown ether systems. These Wurster's Crowns offer particular affinity for specific molecules and this affinity can be regulated electrochemically.

POTENTIAL AREAS OF APPLICATIONS: Catalysts/catalysis technology and chemical sensor technology.

MAIN ADVANTAGE OF INVENTION:

- Wurster's Crowns are especially simple to prepare, resulting in lower manufacturing costs
- The unique structure of the crown ethers possess unique functionality compared to other crown ethers.

STATE OF DEVELOPMENT: The process for development of Wurster's Crowns is established. Development of specific crown ethers continues for specific functions.

LICENSING POTENTIAL: University seeks research & development partners for specific fields of use.

PATENT STATUS: Issued patents: U.S. Patent No. 6,262,258
U.S. Patent No. 6,441,164

DISCLOSURE: Detailed description of data may be made available upon execution of a confidential disclosure agreement.

CONTACT:

Mark D. Foley
Licensing Associate, Office of Technology Transfer
East Carolina University
Greenville Centre, Suite 2400
2200 South Charles Blvd.
Greenville, NC 27858
(252) 328-9549
(252) 328-0799 (fax)
foleym@ecu.edu