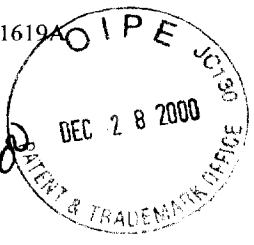


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FORM PTO-1619A
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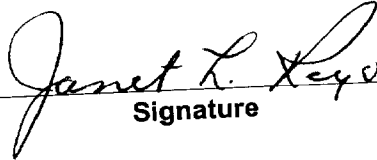
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CONFIRMATORY LICENSE

Title: Slow Release Substrates for Driving
Microbial Transformations of
Environmental Contaminants
Inventor(s): Lewis Semprini
Subcontract Number: B332507
Contractor: University of California – LLNL
Subcontractor: Oregon State University

DOE Docket No.: S-89,551
Subcontractor Docket No.: OSU 97-17
U.S. Patent Application: S.N.: 09/311,992
Filing Date: May 14, 1999
U.S. Patent No.:
Issue Date:

Foreign patent applications filed or intended to be filed at subcontractor's expense in (countries): none

The Subcontractor certifies that a true copy of the provisions which govern patent rights in "subject inventions" under the above identified subcontract is herewith submitted or has been submitted to the Government by Energy by certification dated 12/21/99

WHEREAS, the above identified subcontractor has elected to retain title in the above identified invention as set forth therein, and has agreed

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with the subcontractor with the right to practice or have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the above-identified invention, the above-identified patent application(s), and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

ACCORDINGLY, the above-identified subcontractor has reported the above-identified invention as set forth therein, and has agreed to retain title in the above identified invention as set forth therein, and has agreed to the provisions of the above identified subcontract which govern patent rights in "subject inventions" under the above identified subcontract is herewith submitted or has been submitted to the Government by Energy by certification dated 12/21/99

The Government reserves for itself, and is hereby granted by the Subcontractor, the irrevocable power to inspect and make copies of the file wrapper(s) of the above-identified U.S. patent application and of any related or continuation patent application(s), whether domestic or foreign, for the above-identified invention.

It is understood and agreed that this instrument does not preclude the Government from asserting rights under the provisions of the above-identified subcontract or any other agreement between the Government and the Subcontractor, or any other rights of the Government with respect to the above-identified invention.

Signed on behalf of: OREGON STATE UNIVERSITY
(Subcontractor)

Witness: *Janet Halfpap*
(Signature)
Janet Halfpap Sr. Licensing Associate
(Name and Title)

By: *William Hosterler* 12/21/99
(Subcontractor Official's Signature) (Date)

William Hosterler Director Technology Transfer
(Print/Type Subcontractor Official's Name and Title)
312 Kern Administration Bldg
(Print/Type Subcontractor's Address)
Cascadia OR 97331