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Expires 06/30/99  
OMB 0651-0027

U.S. Department of Commerce  
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S-104,141

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U.S. Department of Commerce  
Patent and Trademark Office  
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## Application Number(s) or Patent Number(s)

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Patent Application Number(s)

11/247,424

Patent Number(s)

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11/247,424

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Title: COMBINATORIAL EVALUATION OF SYSTEMS INCLUDING  
DECOMPOSITION OF A SYSTEM REPRESENTATION INTO  
FUNDAMENTAL CYCLES  
Inventor(s): JS Oliveira, JB Jones-Oliveira, CG Bailey, DW Gull  
Serial No.: 11/247,424 File Date (U.S.): 10/11/2005  
Contractor: Battelle Memorial Institute, PNWD DOE Case No.: S-104,141  
Docket No: 14321-E  
DOE Contract No.: DE-AC05-76RL0 1830 Patent Right Clause No.: I-99

The Contractor, having the right to retain title to subject inventions as a result of Public Law 96-517, has reported the above-identified invention as a subject invention to DOE with its election to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States. Required by the Public Law and the above-identified contract, in this invention and of all other rights acquired by the Government by the above-identified contract, in this invention and of all other rights clause. It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or from asserting any other rights of the Government with respect to the above-identified invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 4th day of January, 2006.

BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST DIVISION  
(Contractor)

by: 

Vincent A. Branton, Contracting Officer

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