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PATENT REEL: 025582 FRAME: 0818

DOE Case No.: S-117,551

BA-378

CONFIRMATORY LICENSE

Application for:

METHODS OF PRODUCING METAL OXIDES, A METHOD OF

PRODUCING ABSORPTION MEDIA INCLUDING THE SAME, AND A PRECURSOR OF AN ACTIVE COMPONENT INCLUDING THE

METAL OXIDE

Inventor(s):

Nicholas R. Mann; Troy J. Tranter

Serial No.:

12/725,142

Filing Date (U.S.): DOE Contract No.: 03/16/2010 DE-AC07-05ID14517

Contractor:

Battelle Energy Alliance, LLC

The invention identified above is a "Subject Invention" under the above-numbered contract with Battelle Energy Alliance, LLC. A copy of the provisions of the above-numbered contract governing patent rights in the Subject Invention at the time the invention was made has been submitted to the U.S. Department of Energy.

The Contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States the Subject Invention throughout the world. This License applies to the invention in the aboveidentified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

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

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this ______ / 3 ** day of June, 2010.

BATTELLE ENERGY ALLIANCE, LLC

Brent Stacey

Director, Technology Deploymen

P. O. Box 1625

Idaho Falls, ID 83415-3790

PATENT REEL: 025582 FRAME: 0819

RECORDED: 12/13/2010