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PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
RESEARCH TRIANGLE INSTITUTE	09/28/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14382822

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Total Attachments: 1

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PATENT 504027722 REEL: 040174 FRAME: 0787

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: Catalytic Biomass Pyrolysis Process Based on a Short-Contact Time Transport Reactor Containing a Novel Deoxygenation Catalyst Inventor(s): David C Dayton, Raghubir P. Gupta, Brian S. Turk, Atish Kataria, Maruthi Sre Pavani, Jian-Ping Shen U.S. Filing/Issue Date: 03/07/2012 09/04/2014 Patent or Application Serial No.: 61/607, 866 14/382,822 Grant/Contract Number(s): DE-AR0000021 Foreign Applications filed/intended in (countries): AUSTRALIA, CANADA, CHINA, EUR PATENT OFC, INDIA, JAPAN, KOREA REP OF The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of: The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award. The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent

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