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PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
UNIVERSITY OF GEORGIA	12/17/2013

RECEIVING PARTY DATA

Name:	U.S. DEPARTMENT OF ENERGY	
Street Address:	1000 INDEPENDENCE AVE., SW	
City:	WASHINGTON	
State/Country:	DISTRICT OF COLUMBIA	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13969199

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Total Attachments: 1

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PATENT REEL: 032398 FRAME: 0646

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in lEdison). Invention Title: Metabolic Engineering of Caldicellulosiruptor bescii for the Production of Biofuels and Bioproducts Inventor(s): Janet Westpheling, Dae-Hwan Chung, MinSeok Cha U.S. Filing/Issue Date: 08/16/2013 Patent or Application Serial No.: 13/969, 199 Grant/Contract Number(s): DE-AC05-000R22725 Foreign Applications filed/intended in (countries): 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 State 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 application. December Signed this Rufe Elulit Derek Eberhart (Institutional Business Official) Interim Director For UNIVERSITY OF GEORGIA (Grantee/Contractor Organization)

At Technology Commercialization Office Boyd Graduate Studies Research Center Athens, GA

PATENT REEL: 032398 FRAME: 0647

RECORDED: 03/06/2014

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