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PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	08/20/2018

RECEIVING PARTY DATA

Name:	U.S. DEPARTMENT OF ENERGY
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14864493

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PATENT 508286354 REEL: 066045 FRAME: 0525

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). invention Title: ENGINEERING MICROBES AND METABOLIC PATHWAYS FOR THE PRODUCTION OF ETHYLENE GLYCOL Inventor(s): Gragory Stephanopoulos, Brian Pereira, Marjan De May, Jose Avalos, Deepak Dugar U.S. Filing/Issue Date: 09/24/2015 Patent or Application Serial No.: 14/864, 493 Grant/Contract Number(s): DE-AR0000059 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 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 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. day of August Signed this By <u>Leigh Edwards</u> (Institutional Business Official) √(Signature) Title Patent Compliance Administrator For MASSACHUSETTS INSTITUTE OF TECHNOLOGY (Grantee/Contractor Organization) At 255 Main Street NB18-501 Cambridge, MA 02142

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RECORDED: 12/15/2023

(Business Address)