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PATENT ASSIGNMENT COVER SHEET

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> **PATENT REEL: 042257 FRAME: 0668** 504322107

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: APPARATUS AND METHODS FOR MAKING RECOMBINANT PROTEINSTABILIZED MONODISPERSE MICROBUBBLES Inventor(s): Francisco Angile, Daniel A Hammer, Daeyeon Lee, Chandra Sandy Sehgal, Kevin Vargo U.S. Filing/Issue Date: 12/19/2016 Patent or Application Serial No.: 15/320, 177 Grant/Contract Number(s): DMR1120901, DMR1309556 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: 1. 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. thryn A. Donohue For UNIVERSITY OF PENNSYLVANIA (Grantee/Contractor Organization) At 3160 Chestnut Street Suite 200 Philadelphia, PA 19104 (Business Address)

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