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PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
UNIVERSITY OF SOUTH FLORIDA	05/13/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14467686

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PATENT 503825017 REEL: 038703 FRAME: 0015

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in lEdison). Invention Title: Magnetic State Estimator to Characterize the Magnetic States of Nano-Magnetic Disks Inventor(s): Sanjuktha Bhanja, Dinuka K Karunaratne, Ravi Panchumarthy, Sudeep Sarkar U.S. Filing/Issue Date: 08/25/2014 Patent or Application Serial No.: 14/467, 686 Grant/Contract Number(s): 0829838, 0639624 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 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. Signed this Livica Pujg day of Mou 13 , 20 1//.

By Rebecca Puig, PhD (Institutional Business Official) (Signature) Title Associate VP USF Research & Innovation For UNIVERSITY OF SOUTH FLORIDA (Grantee/Contractor Organization) Aluniversity of south florida 3702 spectrum blvd, ste 165 tampa, fl 33612

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