506120078 06/23/2020

# PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

#### **CONVEYING PARTY DATA**

Name	Execution Date
IOWA STATE UNIVERSITY	06/16/2020

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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16946028

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PATENT 506120078 REEL: 053752 FRAME: 0518

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: Nano-Patterning Methods Including: (1) Patterning of Nanophotonic Structures at Optical Fiber Tip for Refractive Index Sensing and (2) Plasmonic Crystal Incorporating Graphene Oxide Gas Sensor for Detection of Volatile Organic Compounds Inventor(s): Ratnesh Kumar, Shawana Tabassum, Liang Dong U.S. Filing/Issue Date: 06/03/2020 Patent or Application Serial No.: 16/946,028 Grant/Contract Number(s): NSF CCF1331390 Foreign Applications filed/intended in (countries): N/A 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. Dana Rewoldt (Institutional Business Official) President For IOWA STATE UNIVERSITY (Grantee/Contractor Organization)

At Lowa State University Research Foundation, Inc. 1805 Collaboration Place, Suite 2100

PATENT REEL: 053752 FRAME: 0519

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