506113517 06/18/2020

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| IOWA STATE UNIVERSITY | 08/22/2013 |

RECEIVING PARTY DATA

| Name: | UNITED STATES DEPARTMENT OF ENERGY |
|-----------------|------------------------------------|
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| City: | WASHINGTON |
| State/Country: | D.C. |
| Postal Code: | 20585 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13434900 |

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Total Attachments: 1

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PATENT 506113517 REEL: 052978 FRAME: 0492

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|---|
| Invention Title: Oxidation of Alcohols to Aldehydes with Ozone Catalyzed by Transition Metals |
| Inventor(s): Andreja Bakac, Oleg Pestovsky |
| U.S. Filing/Issue Date: 08/13/2013 |
| Patent or Application Serial No.: 8,507,730 |
| Grant/Contract Number(s): DE-AC02-07CH11358 |
| 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: |
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| Signed this 27 day of August , 2013 . |
| By Lisa Lorenzen (Institutional Business Official) (Signature) |
| Title Executive Director |
| For IOWA STATE UNIVERSITY OF SCIENCE & TECH (Grantee/Contractor Organization) |
| At Iowa State University Research Foundation, Inc. 310 Lab of Mechanics Ames, IA 50011 US (Business Address) |

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RECORDED: 06/18/2020