

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | |
|--|--|---------------|----------------|-----------------------------|------------|
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE | | | | |
| CONVEYING PARTY DATA | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>RESEARCH TRIANGLE INSTITUTE</td> <td>09/25/2012</td> </tr> </tbody> </table> | | Name | Execution Date | RESEARCH TRIANGLE INSTITUTE | 09/25/2012 |
| Name | Execution Date | | | | |
| RESEARCH TRIANGLE INSTITUTE | 09/25/2012 | | | | |
| RECEIVING PARTY DATA | | | | | |
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| PROPERTY NUMBERS Total: 1 | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13574179</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13574179 |
| Property Type | Number | | | | |
| Application Number: | 13574179 | | | | |
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Invention Title: 1-Substituted 4-Arylpiperazines as Opiod Receptor Antagonists

Inventor(s): Juan Pablo Cueva, Hernan A. Navarro, Scott P. Runyon, Frank Ivy Carroll, James B. Thomas, S. Way Mascarella

U.S. Filing/Issue Date: 10/12/2010

Patent or Application Serial No.: 13/574,179

Grant/Contract Number(s): R01 DA009045

Foreign Applications filed/intended in (countries): Australia, Canada, European Patent Office, Japan

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Signed this 25th day of September, 20 12.

By Dean T. Woodward (Institutional Business Official) Dean T. Woodward (Signature)

Title Asst. GC, IP + Licensing

For RESEARCH TRIANGLE INSTITUTE (Grantee/Contractor Organization)

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