

Page 1 of 2**United States and
Foreign (Joint)****Case:****ASSIGNMENT AND AGREEMENT**

FOR VALUE RECEIVED, and to perfect the ownership of the Regents as established under Regents Bylaw 3.10 of the University of Michigan, we, David Thomas Manville and Trevor Nigel Mudge, both of Ann Arbor, Michigan, hereby sell, assign and transfer to The Regents of the University of Michigan, a not-for-profit organization duly organized and existing under the laws of the State of Michigan as assignee, and its successors, assigns and legal representatives, our entire right, title and interest for the patent application having a Serial Number of 13/459,386 and a filing date of April 30, 2012 and any application claiming priority thereto; any continuation, continuation-in-part, divisional, re-examination, reissue or prolongation thereof; and all the rights and privileges under any United States Letters Patent and all foreign Letters Patent that may be granted therefor, including the inventions described therein. We hereby grant permission for the attorney of record to insert the filing information into this agreement.

We request that any and all United States and foreign patents for the inventions be issued to the assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries, and for vesting title thereto in the assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for the inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be

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required in any country for any purpose and more particularly in proof of the right of the assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

Signed: _____
David Thomas Manville

Signed: _____
Trevor Nigel Mudge

STATE OF)
COUNTY OF) ss.
)

On this _____ day of _____, 20 __, personally appeared before me, David Thomas Manville, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

Notary Public
My Commission Expires:

STATE OF)
COUNTY OF) ss.
)

On this 4th day of June, 20/2, personally appeared before me, Trevor Nigel Mudge, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

Denise M. Dupre
Notary Public
My Commission Expires:

DENISE M. DUPRE
NOTARY PUBLIC, STATE OF MI
COUNTY OF LIVINGSTON
MY COMMISSION EXPIRES Oct 8, 2018
ACTING IN COUNTY OF WASHTENAW

