

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
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Property Type	Number	
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DATE SIGNED:	12/11/2019	
Total Attachments: 2		
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor ("Assignor") hereby sells and assigns, unto

Wells Fargo Bank, N.A.
550 California Street
San Francisco, CA 94104

(the "Assignee") its successors and assigns, the inventor's entire worldwide right, title, and interest in and to all inventions, improvements, and discoveries (collectively, the "Inventions") set forth in:

United States Patent Application No. 16/105,769, filed on August 20, 2018, and titled:

"SYSTEMS AND METHODS FOR SINGLE CHIP QUANTUM RANDOM NUMBER GENERATION",

as well as in and to (a) all improvements and modifications to any of the Inventions, (b) the above-identified patent application and all other patent applications, patents, utility models, design registrations, other rights of exclusion, and inventors' certificates in every country or region setting forth (i) any or all of the Inventions or (ii) any improvements or modifications to any or all of the Inventions, (collectively, the "Applications and Granted Rights") (c) every priority right that is or may be predicated upon or arise from any of the Inventions or the Applications and Granted Rights, and (d) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Inventions, the Applications and Granted Rights, and any other rights assigned by this Assignment;

said Assignee being hereby authorized to file patent applications in any or all countries on any or all of the Inventions in the name of the Assignor or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the Patent Cooperation Treat or otherwise; the Commissioner of Patents of the United States Patent and Trademark Office (and officials of other countries whose duty it is to issue patents) being hereby authorized to issue or transfer all Letters Patent to the Assignee in accordance with this Assignment; this assignment being under covenant, not only that full power to make the same is held by the Assignor, but also that such assigned right is not encumbered by any grant, license, or other right previously given, and that the Assignor will do all acts reasonably serving to ensure that the Inventions and the Applications and Granted Rights shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the Assignor if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to any of the Inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody any of

the Inventions, and to testify in any proceedings relating to any of the Inventions or the Applications and Granted Rights.

The Assignor hereby grants the Assignee, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) that may be necessary or desirable for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as the earliest filing date listed above. To the extent that the Assignor has previously assigned, to the Assignee, any right, title, or interest in the Inventions or the Applications and Granted Rights, this document shall be interpreted as confirming the validity of such prior assignment(s).

8/22/2018

Masoud Vakili

Date

/ _____ /
Masoud Vakili