

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MOHAMMADHASSAN NAJAFI	07/31/2020
<b>RECEIVING PARTY DATA</b>	
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<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55455
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16674488
<b>Application Number:</b>	62755906
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<b>ATTORNEY DOCKET NUMBER:</b>	1008-264US01/20180336
<b>NAME OF SUBMITTER:</b>	ALIYA R. KHAZON
<b>SIGNATURE:</b>	/Aliya R. Khazon/
<b>DATE SIGNED:</b>	08/06/2020
<b>Total Attachments: 3</b>	
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UNIVERSITY OF MINNESOTA  
**ASSIGNMENT**

WHEREAS, I, Mohammadhassan Najafi, have invented certain new and useful inventions in SORTING NETWORKS USING UNARY PROCESSING, for which applications for Letters Patents of the United States have been made, said applications being filed as follows: Provisional application no. 62/755,906 on November 5, 2018; and Utility application no. 16/674,488 on November 5, 2019 (the "Application(s)");

WHEREAS, REGENTS OF THE UNIVERSITY OF MINNESOTA ("Assignee"), having offices at 600 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455-2020, is desirous of documenting the acquisition of the entire right, title and interest in and to said invention, said Application(s) and in, to and under any and all Letters Patent to be obtained therefor;

WHEREAS, I hereby acknowledge an obligation of assignment of the inventions disclosed in the Application(s) to Assignee at the time the invention(s) was made;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, and to the extent that I have not done so already via a prior agreement with the Assignee, or if I have already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to the inventions set forth hereinabove and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor on the Application(s) including rights of priority under the Paris Convention for the Protection of Industrial Property and the European Patent Convention, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Application(s) and Letters Patent that may be granted, including all rights to claim priority therefrom, and specifically including the right to enforce such Letters Patent in the name of Assignee and to recover damages for past infringement of the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

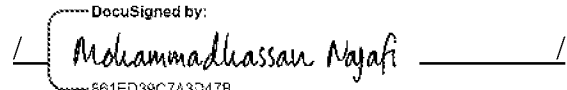
I hereby authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any the Application(s) and/or otherwise take advantage of all rights of priority created by said Application(s) under any treaty relating thereto (including the right to claim priority to said patent application, e.g., under the provisions of the Paris Convention for the Protection of Industrial Property and the European Patent Convention).

Attorney Docket Number 1008-264US01  
UM Case No. 20180336

Upon said consideration I do hereby covenant and agree with said Assignee, its successors and assigns, that I will not execute in writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissues or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Assignee in accordance with this instrument.


I have hereunto set my hand on July 31, 2020 | 2:37 AM CDT

DocuSigned by:  
  
561ED39C7A3D47B...  
Mohammadhassan Najafi

Attorney Docket Number 1008-264US01  
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I have hereunto set my hand on, July 31, 2020 | 7:09 AM CDT, on behalf of  
Assignee Regents of the University of Minnesota accepting this assignment.

REGENTS OF THE UNIVERSITY OF MINNESOTA

DocuSigned by:  
  
0FB835187311411...

Carol Grutkoski  
Chief of Staff and Operations Manager  
per Presidential Delegation ID\_257866

Attorney Docket Number 1008-264US01  
UM Case No. 20180336