

## 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>
PAUL BURCHARD	08/18/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOLDMAN SACHS & CO. LLC
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<b>State/Country:</b>	NEW YORK
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
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<b>NAME OF SUBMITTER:</b>	WILLIAM A. MUNCK
<b>SIGNATURE:</b>	/William A. Munck/
<b>DATE SIGNED:</b>	08/21/2017
<b>Total Attachments: 1</b> source=Assignment#page1.tif	

ASSIGNMENT

WHEREAS, I, Paul Burchard, have invented certain new and useful improvements in "SYSTEMS AND METHODS FOR LEARNING AND PREDICTING TIME-SERIES DATA USING DEEP MULTIPLICATIVE NETWORKS" disclosed in an application for United States Letters Patent, filed herewith;

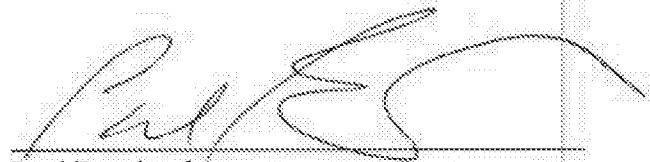
WHEREAS, GOLDMAN SACHS & CO. LLC, a limited liability company organized under the laws of the state of New York, having a place of business at 200 West Street, New York, NY 10282 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the inventions and in and to the application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto the ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to the inventions and in and to the application and all patents which may be granted therefor, and all non-provisionals, divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents to issue all patents for the inventions, or patents resulting therefrom, insofar as my interest is concerned, to the ASSIGNEE of my entire right, title and interest.

I also hereby sell, assign and transfer to the ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the inventions disclosed in the application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for the inventions in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of the inventions and all rights to register the inventions in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in the ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to the ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to me respecting any improvements and, at the expense of the ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in the ASSIGNEE and to aid the ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for the inventions in all countries.

Date: 8/18/17

  
Paul Burchard