

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3010361

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AUREL A LAZAR	09/03/2014
YIYIN ZHOU	09/03/2014
RECEIVING PARTY DATA	
Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	412 LOW MEMORIAL LIBRARY
Internal Address:	535 WEST 116TH ST
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10027
PROPERTY NUMBERS Total: 3	
Property Type	Number
Application Number:	13948615
Application Number:	61441203
PCT Number:	US1224413
CORRESPONDENCE DATA	
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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ATTORNEY DOCKET NUMBER:	070050.4973
NAME OF SUBMITTER:	CHRISTOPHER R. PATRICK
SIGNATURE:	/Christopher R. Patrick/
DATE SIGNED:	09/05/2014
Total Attachments: 3	

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WORLDWIDE ASSIGNMENT

WHEREAS, **Aurel A. Lazar**, a citizen of Germany, having a residence address at 410 Riverside Drive, Apt. 32A, New York, New York 10025; and **Yiyin Zhou**, a citizen of China, having a residence address at Room 801, Building 3, Lane 899, Gumei W. Roda, Shanghai 201102, China (hereinafter "ASSIGNORS"), have made an invention entitled "**Encoding And Decoding Machine With Recurrent Neural Networks**" as set forth and described in U.S. Application No. 13/948,615, filed **July 23, 2013**; International Application No. **PCT/US2012/024413**, filed **February 9, 2012**; United States Provisional Application No. **61/441,203**, filed **February 9, 2011**; and

WHEREAS, **THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK** (hereinafter "ASSIGNEE"), having its principal place of business at **412 Low Memorial Library, 535 West 116th Street, New York, NY, 10027**, is desirous of acquiring our rights, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said **ASSIGNORS**, for and in consideration of valuable considerations unto us moving from said **ASSIGNEE**, at or before the ensealing and delivery of these presents, the receipt and sufficiency of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to the Invention entitled "**ENCODING AND DECODING MACHINE WITH RECURRENT NEURAL NETWORKS**" and any and all improvements thereto, and in and to the application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues or re-exams thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing," TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said **ASSIGNORS**, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **ASSIGNEE**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **ASSIGNEE**, its successors and assigns;

AND WE, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that we have full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said **ASSIGNEE**, its successors and

assigns, may be required or necessary more effectively to secure to and vest in said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

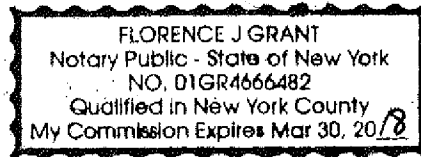
IN WITNESS WHEREOF, WE, the said **ASSIGNORS** have hereunto set our hand and seal on the dates below written.

Date: 03/03/14 2014 *Aurel Lazar*
Aurel A. Lazar

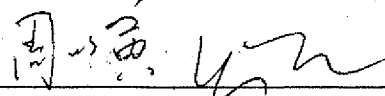
BE IT KNOWN, that on this 3rd day of September 2014, before me personally came, **Aurel A. Lazar** to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Florence J Grant
Witness Signature

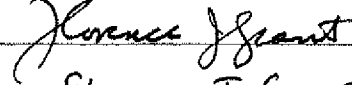
Florence J. Grant
Witness Name



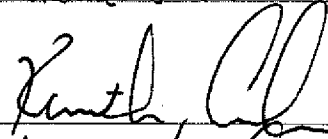
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 3rd day of Sept, 2014.



Yiyin Zhou

Witness:  _____ [signature]

Florence J. Grant _____ [name]

Witness:  _____ [signature]

Kenneth Coates _____ [name]

FLORENCE J GRANT
Notary Public - State of New York
NO. 01GR4666482
Qualified In New York County
My Commission Expires Mar 30, 2018