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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	DATA			
		Name	Execution Date	
Patrick J. Bourke			01/19/2009	
Rob A. Rutenbar			01/19/2009	
RECEIVING PARTY D	ΑΤΑ			
Name:	Carnegie Mellon University			
Street Address:	5000 Forbes A			
City:	Pittsburgh			
State/Country:	PENNSYLVANIA			
Postal Code: 15213				
PROPERTY NUMBERS Total: 1 Property Type Number				
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Property Ty Application Number:		Number		6703
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Application Number: CORRESPONDENCE Fax Number:	DATA (919)238	-2301		
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Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will E</i> Phone:	DATA (919)238 De sent via US M 919-238-	-2301 <i>Mail when the fax attempt is unsuccessful</i>		\$40.00
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will L</i> Phone: Email:	DATA (919)238 <i>pe sent via US I</i> 919-238- jsmith@v	-2301 -2300 <i>Mail when the fax attempt is unsuccessful</i> 2300 <i>v</i> ithrowterranova.com		
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will E</i> Phone:	DATA (919)238 <i>De sent via US I</i> 919-238- jsmith@v WITHRO	-2301 <i>Mail when the fax attempt is unsuccessful</i>		\$40.00
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Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will b</i> Phone: Email: Correspondent Name: Address Line 1:	DATA (919)238 <i>be sent via US M</i> 919-238- jsmith@v WITHRO 100 REG SUITE 16	-2301 <i>Mail when the fax attempt is unsuccessful</i> 2300 vithrowterranova.com W & TERRANOVA, P.L.L.C. ENCY FOREST DRIVE		\$40.00
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Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will E</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	DATA (919)238 <i>pe sent via US I</i> 919-238- jsmith@v WITHRO 100 REG SUITE 16 CARY, N NUMBER:	-2301 <i>Mail when the fax attempt is unsuccessful</i> 2300 vithrowterranova.com W & TERRANOVA, P.L.L.C. ENCY FOREST DRIVE 50 ORTH CAROLINA 27518		\$40.00

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ASSIGNMENT

This Assignment made by us, **Patrick J. Bourke**, a citizen of Australia, residing at 5125 Forbes Ave, City of Pittsburgh, State of Pennsylvania; and **Rob A. Rutenbar**, a citizen of the United States of America, residing at 1547 Shady Ave, City of Pittsburgh, State of Pennsylvania, hereinafter referred to as assignors.

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in HARDWARE-IMPLEMENTED SCALABLE MODULAR ENGINE FOR LOW-POWER SPEECH RECOGNITION for which we are about to make application for Letters Patent of the United States, and for which we have executed a declaration.

WHEREAS, Carnegie Mellon University, a not for profit organization having an office at 5000 Forbes Avenue, City of Pittsburgh, State of Pennsylvania, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in the specification executed by us concurrently herewith, and any and all Letters Patent which shall be granted therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over unto the said assignee, its successors and assigns, the entire right, title and interest in and to the above-mentioned application and invention and in and to any and all Letters Patent of the United States which may hereafter be granted therefor, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, the same to be held and enjoyed by the said assignee, for its interest, and for its own use and behalf, and the use and behalf 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 us had this assignment and sale not been made.

And for the consideration aforesaid, we hereby covenant and agree to and with the said assignee, its successors and assigns, that at the time of the execution and delivery of these presents we are the joint and lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above-mentioned and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth.

And for the consideration aforesaid, we hereby covenant and agree to and with the said assignee, its successors and assigns, that we will, whenever its counsel or the counsel of its successors and assigns, learned in the law, shall advise that an amendment, division, continuation, continuation-in-part, or substitution of, or any other proceeding in connection with said application, including interference proceedings, is lawful and desirable, sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue of the same without charge to our said assignee, its successors or assigns, but at its or their expense.

We hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, we have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said assignee, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any

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applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to the invention described in said application; and we hereby authorize and empower the said assignee, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and we hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the assignee, its successors, assignee, or nominee, without charge to our said assignee, its successor, assignee or nominee, but at its or their expense.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Ja1909

Patrick J. Bourke

Rob A. Rutenbar

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RECORDED: 01/19/2009