PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6061398

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREW WAGNER	04/10/2020
TIYASA MITRA	04/13/2020
SUJEETH SUBRAMANYA BHARADWAJ	04/13/2020
SAURABH MOHAN KULKARNI	04/10/2020
MARC TREMBLAY	04/10/2020

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	ONE MICROSOFT WAY	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052-6399	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16848707

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 408-244-6319

Email: USDocket@microsoft.com

Correspondent Name: FOUNTAINHEAD LAW GROUP P.C. EXPORT

Address Line 1: 900 LAFAYETTE STREET

Address Line 2: SUITE 301

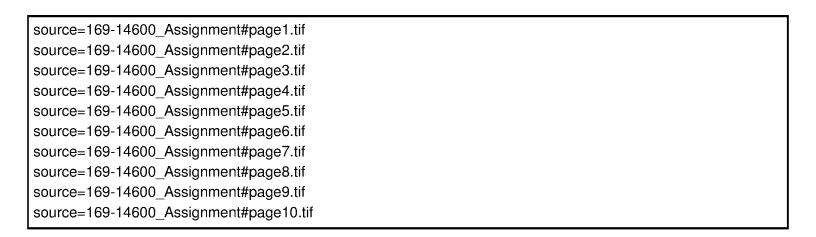
Address Line 4: SANTA CLARA, CALIFORNIA 95050

ATTORNEY DOCKET NUMBER:	408162-US-NP (169-14600)	
NAME OF SUBMITTER:	CHAD R. WALSH	
SIGNATURE:	/Chad R. Walsh/	
DATE SIGNED:	04/14/2020	

Total Attachments: 10

PATENT REEL: 052396 FRAME: 0387

506014686



PATENT REEL: 052396 FRAME: 0388

I <u>Andrew WAGNER</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SPREAD NEURAL NETWORKS" ("APPLICATION"), which:

X	will be filed.	ASSIGNOR I	nereby au	thorizes,	, and	requests,	ASSIGN	EE'S
	legal represer	itative, Micros	oft Techr	iology Li	censi	ng, LLC, Or	ie Micro	soft
	Way, Redn	nond, Was	hington	9805	2	(ASSIGNEE'	S LE	GAL
	REPRESENTAT	IVES), to	insert	here	in	parenthe:	ses (filed
	on April 14, 202	<u>10</u> and	given Ap	plication	No.	16/848,7	<u>07</u> by	the
	following Off	ice <u>US – Unit</u>	<u>ed States</u>	<u>Patent</u>	and T	<u> Frademark</u>	Office)	this
	APPLICATION [®]	's Application	No., filin	g date, a	nd O	ffice, when	known;	;
	was filed on _		and wa	ıs given /	Applio	cation No _		_ by
	the following	Office "US - U	Jnited Sta	tes Pater	it and	l Trademar	k Office	,",

Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office	

MS Docket No.: 408162-US-NP

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Inventor's Signature	Date 04/10/2020
Andrew WAGNER	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 408162-US-NP

PATENT ASSIGNMENT MS Docket No.: 408162-US-NP

l Tivasa MITRA ("ASSICNI	OR") am the original invent	or or an original ioin	t inventor of
subject matter ("INVENTION") d	•		
<u> "SPREAD NEURAL NETWORKS" (</u>	"APPLICATION"), which:		
$oxed{X}$ will be filed. AS	SIGNOR hereby authorizes	s, and requests, ASS	IGNEE'S
legal representativ	ve, Microsoft Technology L	icensing, LLC, One M	icrosoft
Way, Redmond	d, Washington 9805	(ASSIGNEE'S	LEGAL
REPRESENTATIVES	•	•	·
	0 and given Applicatio		-
-	<u> JS – United States Patent</u>		
APPLICATION's Ap	oplication No., filing date,	and Office, when kno	wn;
was filed on	and was given	Application No	by
the following Offic	ce " <u>US – United States Pate</u>	<u>nt and Trademark Of</u>	<u>fice</u> ";
- •	censing, LLC, a Washington		
of itself and its successors a	-		
acquiring, the entire and exclus	•		•
the INVENTION and the APPL		• •	
therefrom, such as continuing a		•	United States,
its territories, and all foreign co	ountries ("APPLICATION DE	RIVATIVES"));	
•	rizes, and requests, ASSIC		
insert the Application No., filing		ollowing table for any	APPLICATION
DERIVATIVES after they are kno	· Y		
Application No.	Filing Date	Office	
	***************************************	***************************************	

MS Docket No.: <u>408162-US-NP</u>

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ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Inventor's Signature	Date 4/13/2020
x liva	
Signed by: Tiyasa Mitra	
<u>Tiyasa MITRA</u>	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 408162-US-NP

I <u>Sujeeth Subramanya BH</u>	<u>ARADWAI</u> ("ASSIGNOR") ar	n the original inventor or	an
original joint inventor of subjec	t matter ("INVENTION") dis	closed and/or claimed in	a patent
application entitled <u>"SPREAD NE</u>			,
approach critical <u>or real to the </u>	7 X 1 V Sec. 1 V Sec. 1 V 8 V 9 V 13 3 3 4 7 7 X 7 1 Sec. 1 V 15 1 Sec.	D7 (1 ())	
legal representativ Way, Redmond REPRESENTATIVES on _April 14, 2020	SIGNOR hereby authorized Ve, Microsoft Technology L I, Washington 980!), to insert here D and given Application	icensing, LLC, One Micros 52 (ASSIGNEE'S LEC in parentheses (fi n No. <u>16/848,707</u> by	oft JAL led the
			1113
APPLICATION's Ap	pplication No., filing date,	and Office, when known;	
the following Offic	sive rights, title and intere ICATION (and all other applications, in whole or in	nt and Trademark Office" limited liability company, is entitled to, and is de st, including the right of p applications and patent n part, in and for the Unit	on behalf esirous of priority, in s derived
,	·	,,,	
ASSIGNOR hereby autho	rizes, and requests, ASSIG	GNEE'S LEGAL REPRESENT	ATIVES to
insert the Application No., filing	date, and Office into the f	ollowing table for any APP	LICATION
DERIVATIVES after they are known	wn;		
Application No.	Filing Date	Office	

	***************************************	***************************************	*******

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

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Inventor's Signature Sujedh Chardory Sujeeth Subramanya BHARADWAI	Date 04/13/2020
Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: 408162-US-NP

I <u>Saurabh Mohan KULKARNI</u> ("ASSIGNOR") am the original inventor or an original joint
inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application
entitled "SPREAD NEURAL NETWORKS" ("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on April 14, 2020 and given Application No. 16/848,707 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;
was filed on and was given Application No by the following Office <u>"US – United States Patent and Trademark Office":</u>
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));
ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known:

MS Docket No.: 408162-US-NP

DERIVAT Application No. Filing Date Office

Page 1 of 2

PATENT REEL: 052396 FRAME: 0395

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

MS Docket No.: 408162-US-NP

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Inventor's Signature	Date	
Mull	04/10/2020	
Printed Name in English	Printed Name in Native Language (if other than English)	
Saurabh Mohan KULKARNI		

PATENT ASSIGNMENT MS Docket No.: 408162-US-NP

of subject matter	("INVENTION"	SNOR") am the orig) disclosed and/or 'APPLICATION"), wh	claimed in a		
lega Way REPI on _ follo	l representation, Redmond RESENTATIVES April 14, 202 Inwing Office <u>I</u>	SIGNOR hereby auve, Microsoft Techred, Washington (i), to insert (i) and given Apull States (ii) polication No., filing	ology Licens 98052 here in plication No. Patent and	ing, LLC, One M (ASSIGNEE'S parentheses 16/848,707 Trademark Offi	licrosoft LEGAL (filed by the lce) this
		and wa ce " <u>US – United Sta</u>			
of itself and its acquiring, the ent the INVENTION a therefrom, such a	successors a ire and exclus and the APPI s continuing	ensing, LLC, a Was nd assigns ("ASSIC sive rights, title and ICATION (and all applications, in whountries ("APPLICAT	INEE"), is er I interest, ind other appli ole or in par	ititled to, and cluding the righ cations and part, in and for the	is desirous of t of priority, in atents derived
	tion No., filing	rizes, and request gdate, and Office ir wn:			
Application No.		Filing Date	Offi	 ce	
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Inventor's Signature Marc TREMBLAY	Date 4/10/2020
Printed Name in English	Printed Name in Native Language (if other than English)

RECORDED: 04/14/2020