PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MATTHEW BENJAMIN HASTINGS	05/08/2020
JEONGWAN HAAH	05/08/2020

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16870988

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Correspondent Name: MICROSOFT CORPORATION

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ATTORNEY DOCKET NUMBER:	408301-US-NP
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
SIGNATURE:	/VLADIMIR A. KOZYREV/
DATE SIGNED:	05/10/2020

Total Attachments: 4

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PATENT 506052598 REEL: 052619 FRAME: 0183

PATE	NT ASSIGNMENT	Γ MS Docket	No.: <u>408301-US-NP</u>
l <u>Matt</u>	thew Benjamin HA	<u> ASTINGS</u> ("ASSIGNOR") am	the original inventor or a
original joint	t inventor of subje	ct matter ("INVENTION")	disclosed and/or claimed in a
patent appli	cation entitled "M	AGIC STATE DISTILLATIO	N USING INNER AND OUTE
ERROR CORR	ECTING CODES" ("A	APPLICATION"), which:	
	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT May 10, 2020 the following Of	ASSIGNOR hereby auth representative, Microsoft ft Way, Redmond, Washing ATIVES), to insert here in pand given Application for the base of	Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No. 16/870,988 by Patent and Trademark
	Office) this APPLIC when known;	CATION's Application No.,	filing date, and Office,
	was filed on	and was given	Application No
		Office "	
behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti- rity, in the INVENTI ved therefrom, suc ited States, its t	ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	n limited liability company, or GNEE"), is entitled to, and it tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
ASSIG	NOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGA
REPRESENTA'	TIVES to insert t	he Application No., filin	g date, and Office into the
following tab	le for any APPLICA	TION DERIVATIVES after th	ney are known;
Application N	١٥.	Filing Date	Office

Page	1	Λf	2
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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).

nar Up	5/8/2020
Inventor's Signature	Date
Matthew Benjamin HASTINGS	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

***	Jeo	ngwan	HAAH	<u> </u>	SSIGNO	R") an	n th	e or	iginal	invento	r or	an	orig	ina	l joint
or	of	subje	ct m	atter	("INVE	NTION	l") c	lisclo	sed	and/or	clain	ned	in	a	patent
			.) 11 K K A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ver anders V anders Ban	Land (\sim adm.)		-1/~ 6.7	112-121			~ ~	~ 1 1 1 1 1 1	~ 6~	~~~~

MS Docket No.: 408301-US-NP

inventor of sub	ject matter	("INVE	NTION") d	disclosed	and/or	claimed	l in a	patent
application entitl	ed "MAGIC	STATE	DISTILLAT	TION USIN	IG INNER	AND	OUTER	ERROR
CORRECTING COL	DES" ("APPLI	CATION'	"), which:					
panas,								

\boxtimes	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 May 10, 2020 and given Application No. 16/870,988 by
	the following Office <u>US - United States Patent and Trademark</u>
	Office) this APPLICATION's Application No., filing date, and Office, when known;
	was filed on and was given Application No
	by the following 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.: 408301-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).

Jergon Huch

Inventor's Signature

Jeongwan HAAH

Printed Name in English

8 May 2020

Date

하정완

Printed Name in Native Language

(if other than English)