PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6865221

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YANG BAI	07/23/2021
WENCHAO CUI	07/23/2021
HAITAO GUO	07/23/2021
RAN PENG	07/23/2021
TIANJI ZHAO	07/26/2021

RECEIVING PARTY DATA

Name:	VMWARE, INC.
Street Address:	3401 HILLVIEW AVENUE
City:	PALO ALTO
State/Country:	CALIFORNIA
Postal Code:	94304

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17402652

CORRESPONDENCE DATA

Fax Number: (650)427-4818

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: (650)427-4267

VMware@blackhillsip.com, ipadmin@vmware.com, Email:

filing@suipconsulting.com

Correspondent Name: VMWARE, INC.

Address Line 1: 3401 HILLVIEW AVENUE Address Line 2: ATTN: JAMES KIRYAKOZA

Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER:	H494
NAME OF SUBMITTER:	GENE SU
SIGNATURE:	/Gene Su/
DATE SIGNED:	08/16/2021

Total Attachments: 6

PATENT REEL: 057182 FRAME: 0288



PATENT REEL: 057182 FRAME: 0289

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, an ASSIGNOR named below,

YANG BAI	of	CHINA
WENCHAO CUI	of	CHINA
HAITAO GUO	of	CHINA
RAN PENG	of	CHINA
TIANJI ZHAO	of	CHINA

hereby sell, assign, transfer and set over to

ASSIGNEE: VMware, Inc., a Delaware corporation, having a principal place of business at 3401 Hillview Avenue, Palo Alto, California 94304, U.S.A. (VMware), its successors, assigns and legal representatives,

my entire right, title and interest throughout the world, including all rights to claim priority, in and to the invention(s) disclosed in:

X U.S. Patent Applic	cation executed on a	or about the date of this A	ssignment,
U.S. Patent Applic	ation No.:	filed on	
U.S. Provisional A	pplication No.:	, filed on;	
X International Appl	ication No.: <u>PCT/C</u>	:N2021/102737, filed on	June 28, 2021
and			
	/E HYBRID POLI UTPUT (I/O) DET	ING BASED ON OUTS' ERMINATION	FANDING
and identified by Attorne	y Docket Number:	H494	
and naming inventor(s) a	s follows:		
INVENTOR(S):	YANG BAI		
	WENCHAO CUI		
	HAITAO GUO		
	RAN PENG		
	TY COURT TYPE CO		

including without limitation, my entire right, title and interest in and to any and all United States and foreign applications (including any and all provisional, international, regional and foreign national applications) for said invention(s), including divisionals, continuations, continuations-in-part, renewals, substitutes and extensions thereof, and in and to any and all patents of every country or region that may be granted or have been granted for said invention(s), including any reissues and reexaminations thereof—the foreign applications

including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the invention(s) in any country or countries foreign to the United States, and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s); to claim all rights of priority without further authorization from me, which priority rights include rights derived from any United States application (provisional or otherwise) under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which

any such application is filed, as may be applicable; and to own in its own name all applications, all patents and inventor's certificates in all countries based on the invention(s).

I agree to execute any and all documents requested by ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their reasonable expense, in connection with filing and prosecution of any and all United States and foreign applications (including international, regional, and foreign national applications), enforcement of all patents, and maintenance of all rights in the invention(s), patents, inventor's certificates and applications for patents or inventor's certificates based on any of the invention(s); and generally to do everything possible to aid ASSIGNEE, its successors, assigns, legal representatives, and nominees, at their request and reasonable expense, in obtaining, enforcing, and maintaining patents and inventor's certificates for said invention(s) in all countries. In particular, I agree to provide to ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their request and at their reasonable expense, all information known to or ascertainable by me and all documents and other materials and objects pertaining to the invention(s) that are in the possession of or accessible to me; and further, at any trial, hearing, deposition or other legal proceeding where I am called as a witness by ASSIGNEE, its successors, assigns, legal representatives, or nominee, I agree to testify to all facts pertaining to the invention(s) for which I am competent to testify.

I hereby covenant that I have full right to convey the entire interest that is being assigned by this Assignment, and that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

I authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue any U.S. Letters Patent or any other patent or property right that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

Executed on	07/23/21	by.	白城
***************************************	Date (MM/DD/YY)	*	YANG BAI
Executed on _		by _	
	Date (MM/DD/YY)		WENCHAO CUI
Executed on		by_	
	Date (MM/DD/YY)	,	HAITAO GUO

including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the invention(s) in any country or countries foreign to the United States, and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s); to claim all rights of priority without further authorization from me, which priority rights include rights derived from any United States application (provisional or otherwise) under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which

any such application is filed, as may be applicable; and to own in its own name all applications, all patents and inventor's certificates in all countries based on the invention(s).

I agree to execute any and all documents requested by ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their reasonable expense, in connection with filing and prosecution of any and all United States and foreign applications (including international, regional, and foreign national applications), enforcement of all patents, and maintenance of all rights in the invention(s), patents, inventor's certificates and applications for patents or inventor's certificates based on any of the invention(s); and generally to do everything possible to aid ASSIGNEE, its successors, assigns, legal representatives, and nominees, at their request and reasonable expense, in obtaining, enforcing, and maintaining patents and inventor's certificates for said invention(s) in all countries. In particular, I agree to provide to ASSIGNEE, its successors, assigns, legal representatives, or nominees, at their request and at their reasonable expense, all information known to or ascertainable by me and all documents and other materials and objects pertaining to the invention(s) that are in the possession of or accessible to me; and further, at any trial, hearing, deposition or other legal proceeding where I am called as a witness by ASSIGNEE, its successors, assigns, legal representatives, or nominee, I agree to testify to all facts pertaining to the invention(s) for which I am competent to testify.

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Executed on _		by		
	Date (MM/DD/YY)	·	YANG BAI	
Executed on _	07/23/21	by	4/28	
	Date (MM/DD/YY)	•	WENCHAO CUI	*********
Executed on _		by		
	Date (MM/DD/YY)	Ť	HAITAO GUO	•

including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the invention(s) in any country or countries foreign to the United States, and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

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Executed on _	,	by	:	
	Date (MM/DD/YY)		YANG BAI	
Executed on _	,	by		
	Date (MM/DD/YY)		WENCHAO CUI	
Executed on _	07/23/2021	by	Haitoo GUO	
	Date (MM/DD/YY)		HÀITAO GUO	1

ASSIGNMENT

Executed on _	07/23/2021	, by _	RAN PENG	
	Date (MM/DD/YY)		RAN PENG	
Executed on _		, by _		
	Date (MM/DD/YY)	-	TIANJI ZHAO	

ASSIGNMENT

Executed on _		, by _		
	Date (MM/DD/YY)	_	RANDENG	
Executed on _	2021/07/26	, by _		
_	Date (MM/DD/YY)		TIANIIZHAO	

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PATENT REEL: 057182 FRAME: 0295