PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5114615

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DOUGLAS JAMES ASAY	08/27/2018
BHAVIN RAJU SHAH	08/27/2018

RECEIVING PARTY DATA

Name:	EQUINIX, INC.
Street Address:	ONE LAGOON DRIVE
City:	REDWOOD CITY
State/Country:	CALIFORNIA
Postal Code:	94065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16115199

CORRESPONDENCE DATA

Fax Number: (651)735-1102

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: 651-735-1100

Email: pairdocketing@ssiplaw.com **Correspondent Name:** SHUMAKER & SIEFFERT, P. A.

Address Line 1: 1625 RADIO DRIVE

Address Line 2: SUITE 100

Address Line 4: WOODBURY, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	1209-104US01
NAME OF SUBMITTER:	KAYLA A. TAHTI
SIGNATURE:	/Kayla A. Tahti/
DATE SIGNED:	08/28/2018

Total Attachments: 4

source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif

> **PATENT REEL: 046729 FRAME: 0772**

505067859

Attorney Docket No.: 1209-104US01

ASSIGNMENT

For valuable consideration, we, Tikhon Suresh Pichai of 720 Carriage Hill Road, Simpsonville, South Carolina 29681; Douglas James Asay of 6521 Kona Court, San Jose, California 95119; and Bhavin Raju Shah of 1 Vista Montana, Apt #3407, San Jose, California 95134, hereby assign to: Equinix, Inc., having a place of business at: One Lagoon Drive, Redwood City, CA 94065, United States of America, and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled DATA CENTER REFRIGERATION SYSTEM, filed August 28, 2018, and assigned U.S. Serial Number 16/115,199 ; entitled DATA CENTER REFRIGERATION SYSTEM, filed August 28, 2017 and assigned U.S. Serial Number 62/551,064; this assignment including said application, (and do hereby authorize the Assignee and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date:	Tikhon Suresh Pichai	
Aug 27, 2018 Date:	Designation of the second state of the second	
	Douglas James Asay	

Attorney Docket No.: 1209-104US01	
Date:	Bhavin Raju Shah

Attorney Docket No.: 1209-104US01

$\underline{ASSIGNMENT}$

For valuable consideration, we, Tikhon Suresh Pichai of 720 Carriage Hill Road, Simpsonville,
South Carolina 29681; Douglas James Asay of 6521 Kona Court, San Jose, California 95119;
and Bhavin Raju Shah of 655 S Fair Oaks Avenue, Apt. M204, Sunnyvale, California 94086,
hereby assign to: Equinix, Inc., having a place of business at: One Lagoon Drive, Redwood
City, CA 94065, United States of America, and its successors and assigns (collectively
hereinafter called "the Assignee") the entire right, title and interest throughout the world in the
nventions and improvements which are the subject of an application for United States Patent
signed by us, entitled DATA CENTER REFRIGERATION SYSTEM, filed
August 28, 2018, and assigned U.S. Serial Number 16/115, 199; entitled
DATA CENTER REFRIGERATION SYSTEM, filed August 28, 2017 and assigned U.S. Serial
Number 62/551,064; this assignment including said application, (and do hereby authorize the
Assignee and its representative to hereafter add herein such application number(s) and/or filing
date(s) when known), any provisional, non-provisional, continuation, continuation-in-part,
divisional, reissue, renewal, extension or other application for any of said inventions or
mprovements, any and all United States and foreign patents, utility models, and design
registrations granted for any of said inventions or improvements, and the right to claim priority
pased on the filing date of said application under the International Convention for the Protection
of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all
other treaties of like purposes and we authorize the Assignee to apply in all countries in our
name or in its own name for patents, utility models, design registrations and like rights of
exclusion and for inventors' certificates for said inventions and improvements; and we agree for
ourselves and our respective heirs, legal representatives and assigns, without further
compensation to perform such lawful acts and to sign such further applications, assignments,
Preliminary Statements and other lawful documents as the Assignee may reasonably request to
effectuate fully this assignment.
Date:
Tilthon Surach Dichai

PATENT REEL: 046729 FRAME: 0775

Attorney Docket No.: 1209-104US01	
Date:	Douglas James Asay
Date:Aug 27, 2018	Sharin Raju Shah

PATENT REEL: 046729 FRAME: 0776

RECORDED: 08/28/2018