

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7037510

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ROBERT FRANGOLES	11/19/2021
CHRISTOPHER CHORNEY	11/19/2021
RECEIVING PARTY DATA	
Name:	T-Mobile USA, Inc.
Street Address:	12920 SE 38th Street
City:	Bellevue
State/Country:	WA
Postal Code:	98006-1350
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17532489
CORRESPONDENCE DATA	
Fax Number:	(509)944-4692
<i>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.</i>	
Phone:	509-324-9256
Email:	alexisc@leehayes.com
Correspondent Name:	LEE & HAYES, P.C.
Address Line 1:	601 W. RIVERSIDE AVE, SUITE 1400
Address Line 4:	SPOKANE, WASHINGTON 99201
ATTORNEY DOCKET NUMBER:	TM2-1044US
NAME OF SUBMITTER:	ALEXIS COLLINS
SIGNATURE:	/Alexis Collins/
DATE SIGNED:	11/22/2021
Total Attachments: 4 source=2LI9644#page1.tif source=2LI9644#page2.tif source=2LI9644#page3.tif source=2LI9644#page4.tif	

Patent Assignment
T-Mobile File No. P3853-US / 711260
OC Ref. No. TM2-1044US

ASSIGNMENT

WHEREAS, Robert Frangoles and Christopher Chroney, residing at Bellevue, Washington, and Seattle, Washington, respectively (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to

METHODS AND SYSTEMS FOR DETERMINING A WIRELESS SERVICE OUTAGE

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "METHODS AND SYSTEMS FOR DETERMINING A WIRELESS SERVICE OUTAGE" for which:

☐ a provisional application for United States Letters Patent was filed on ____ and was given U.S. Serial No. ____; and/or

☒ a non-provisional application for United States Letters Patent was:

☒ filed on 11/22/2021 and was given U.S. Serial No. 17/532,489; or filed concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal representatives, of Lee & Hayes, P.C., 601 W Riverside Ave, Suite 1400, Spokane, Washington 99201, who are associated with customer number 132935, to insert in the caption above the serial number and filing date of the patent application when known.

WHEREAS, **T-Mobile USA, Inc.** a corporation of the State of Delaware, having its principal place of business at 12920 SE 38th Street, Bellevue, Washington, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar and other valuable considerations, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above

Patent Assignment
T-Mobile File No. P3853-US / 711260
OC Ref. No. TM2-1044US

described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries or that may be necessary to vest in said Assignee the complete title to the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

11/19/2021

Date

DocuSigned by:
Robert Frangoles

A50B17D9AB154FB
Robert Frangoles

Date

Christopher Chroney

Patent Assignment
T-Mobile File No. P3853-US / 711260
OC Ref. No. TM2-1044US

ASSIGNMENT

WHEREAS, Robert Frangoles and Christopher Chorney, residing at Bellevue, Washington, and Seattle, Washington, respectively (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to

METHODS AND SYSTEMS FOR DETERMINING A WIRELESS SERVICE OUTAGE

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "METHODS AND SYSTEMS FOR DETERMINING A WIRELESS SERVICE OUTAGE" for which:

☐ a provisional application for United States Letters Patent was filed on ____ and was given U.S. Serial No. ____; and/or

☒ a non-provisional application for United States Letters Patent was:

☒ filed on 11/22/2021 and was given U.S. Serial No. 17/532,489; or filed concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal representatives, of Lee & Hayes, P.C., 601 W Riverside Ave, Suite 1400, Spokane, Washington 99201, who are associated with customer number 132935, to insert in the caption above the serial number and filing date of the patent application when known.

WHEREAS, **T-Mobile USA, Inc.** a corporation of the State of Delaware, having its principal place of business at 12920 SE 38th Street, Bellevue, Washington, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar and other valuable considerations, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above

Patent Assignment
T-Mobile File No. P3853-US / 711260
OC Ref. No. TM2-1044US

described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries or that may be necessary to vest in said Assignee the complete title to the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

Date

11/19/2021

Date

Robert Frangoles

DocuSigned by:

Christopher Chorney

Christopher Chorney