

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHUO ZHANG	06/28/2020
LIXIA HU	06/28/2020
KAI ZHOU	06/28/2020
QIAN YANG	06/28/2020
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<b>Postal Code:</b>	78682-2244
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16917557
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<b>DATE SIGNED:</b>	06/30/2020
<b>Total Attachments: 5</b>	
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## **ASSIGNMENT**

WHEREAS, **ZHUO ZHANG**, a citizen of China, residing No. 252 Songhu Road, KIC 2, Shanghai, China 200433, **LIXIA HU**, a citizen of China, residing at No. 252 Songhu Road, KIC 2, Shanghai, China 200433, **KAI ZHOU**, a citizen of China, residing No. 252 Songhu Road, KIC 2, Shanghai, China 200433, and **QIAN YANG**, a citizen of China, residing at No. 252 Songhu Road, KIC 2, Shanghai, China 200433, hereinafter called the “Assignors”, have made the invention described in the United States patent application entitled ***Pipeline Rolling Update***, Attorney Docket No. 102450.00664 (119955.01), for a full description of which reference is here made to an application for Letters Patent of the United States filed on June 30, 2020 and assigned Application Serial No. 16/917557; and

For good and valuable consideration, the receipt of which is hereby acknowledged, we hereby also sell, assign and transfer unto DELL PRODUCTS L.P., the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in the United States of America and all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize DELL PRODUCTS L.P. to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation, continuation-in-part, or reissue, to DELL PRODUCTS L.P., for the sole use and benefit of DELL PRODUCTS L.P., its successors, assigns and legal representatives, to the full end of the term for which the Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to DELL PRODUCTS L.P.

We agree that, when requested, we will, without charge to DELL PRODUCTS L.P., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in DELL PRODUCTS L.P., its successors, assigns and legal representatives or nominees.

We covenant with DELL PRODUCTS L.P., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

<b>NAME OF FIRST INVENTOR</b>	<b>ZHUO ZHANG</b>
<b>SIGNATURE OF FIRST INVENTOR</b>	<u>Zhuo Zhang</u>
<b>DATE</b>	<u>Jun 28, 2020</u>

<b>NAME OF SECOND INVENTOR</b>	<b>LIXIA HU</b>
<b>SIGNATURE OF SECOND INVENTOR</b>	<u>Lixia Hu</u>
<b>DATE</b>	<u>Jun 28, 2020</u>

<b>NAME OF THIRD INVENTOR</b>	<b>KAI ZHOU</b>
<b>SIGNATURE OF THIRD INVENTOR</b>	<u>Kai Zhou</u>
<b>DATE</b>	<u>Jun 28, 2020</u>

<b>NAME OF FOURTH INVENTOR</b>	<b>QIAN YANG</b>
<b>SIGNATURE OF FOURTH INVENTOR</b>	<u>Qian Yang</u>
<b>DATE</b>	<u>Jun 28, 2020</u>