504237777 02/21/2017

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNM | ENT | | | |
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| NATURE OF CONVEYANCE: | | ASSIGNMENT | ASSIGNMENT | | | |
| CONVEYING PARTY | DATA | | | | | |
| | | Name | | | Execution Date | |
| DAVID B. LUPER | | | | | 02/16/2017 | |
| RECEIVING PARTY D | ΑΤΑ | | | | | |
| Name: | APPLE | INC. | | | | |
| Street Address: | 1 INFIN | 1 INFINITE LOOP | | | | |
| City: | CUPE | RTINO | | | | |
| State/Country: | CALIF | ORNIA | | | | |
| Postal Code: | 95014 | | | | | |
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ASSIGNMENT

APLE.P0695 P28730US1

WHEREAS, we, David B. Luper, residing in Cupertino, CA and Francois M. Jouaux, residing in Woodside, CA, have made an invention entitled: Normalization of Device Probe Data for Path Identification and have made application for United States Letters Patent therefor, the same having been filed in the United States Patent and Trademark Office on 9/23/2016 as United States Application No. 15/274,769; and

WHEREAS, Apple Inc., a corporation organized and existing under the laws of California and having an office and place of business at 1 Infinite Loop, Cupertino, California 95014, United States of America, is desirous of acquiring the entire interest in said invention, said United States Patent Application, and in any Letters Patent which may be entitled to the benefit thereof;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to each of us paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we do hereby sell, assign, and transfer unto the said Apple Inc., its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States Patent Application, including any nonprovisional patent application claiming the benefit thereof and any continuations and divisions thereof, and any substitute applications therefor, and any patents which may issue thereon, and any reissues of the same, and including the right to claim priority under the International Convention based on said Patent Application; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same; we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said Apple Inc. as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the date(s) indicated hereinafter:

Date: 2/16/2017 Signature:

Date:

Signature: ______ David B. Luper

Signature:

Francois M. Jouaux

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Attorney Docket No.: APLE.P0695 USPTO Serial No.: 15/274,769 Client Docket No.: P28730US1

PATENT REEL: 041326 FRAME: 0317

RECORDED: 02/21/2017