PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3220384

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| RALPH MASON | 06/03/2011 |
| JASON KOCH | 06/03/2011 |
| HOWARD JELINEK | 06/03/2011 |

RECEIVING PARTY DATA

| Name: | TELOGIS, INC. |
|-------------------|---------------|
| Street Address: | 85 ENTERPRISE |
| Internal Address: | SUITE 450 |
| City: | ALISO VIEJO |
| State/Country: | CALIFORNIA |
| Postal Code: | 92656 |

PROPERTY NUMBERS Total: 2

| Property Type | Number |
|----------------|---------|
| Patent Number: | 8290701 |
| Patent Number: | 8886453 |

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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: 9497600404

Email: efiling@knobbe.com

Correspondent Name: KNOBBE, MARTENS, OLSON & BEAR LLP

Address Line 1: 2040 MAIN STREET

Address Line 2: 14TH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92614

| ATTORNEY DOCKET NUMBER: | TLOGS.005C1-TLOGS.003P1 |
|-------------------------|-------------------------|
| NAME OF SUBMITTER: | JACOB PETERSON |
| SIGNATURE: | /Jacob Peterson/ |
| DATE SIGNED: | 02/10/2015 |
| | • |

Total Attachments: 4

PATENT REEL: 034931 FRAME: 0111



PATENT REEL: 034931 FRAME: 0112 Application No.: 12/954,547
Filing Date: November 24, 2010

Docket Number: TLOGS.005A

Page 1 of 4

ASSIGNMENT

WHEREAS, Ralph Mason, a New Zealand citizen, residing at Middleton, New Zealand, Jason Koch, a United States citizen, residing at Aliso Viejo, CA, and Howard Jelinek, a United States citizen, residing at Laguna Beach, CA, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to VEHICLE ROUTE SELECTION BASED ON ENERGY USAGE (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, Telogis, Inc., a Delaware Corporation, with its principal place of business at 85 Enterprise, Suite 450, Aliso Viejo, CA 92656 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). 61/281,859, filed November 24, 2009 (respectively if plural applications)), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

| Application No.: 12/954,547 Filing Date: November 24, 2010 | | | | | Doc | ket Nu | ımber | : TLOC Paç | 98.00 ge 2 o | |
|--|--|--------------------------------------|------------------------------|--|--|--------------------------------------|-------------------------|------------------------------|-------------------------------------|-----------------------------|
| IN TESTIMONY WHEREOF, I | hereunto | set | my | hand | and | seal | this | 3_ | day | of |
| | | | A | 1/2 | <i>A</i> | | | | | |
| | | Ralph | Mas | son | | • | | | | |
| STATE OF CALIFORNIA | 1 | | | | | | | | | |
| | } | SS. | | | | | | | | |
| COUNTY OF | J | | | | | | | | | |
| On JUNE 3, 2011, be personally appeared Ralph Mason who properson(s) whose name(s) is/are subscribe he/she/they executed the same in his/be signature(s) on the instrument the person executed the instrument. I certify under PENALTY Of the foregoing paragraph is true and correct | oved to red to the enthaling a | ne on within uthori e entit | the n ins zed ty up | basis of trumer capaci on beh | or sat nt, and ty(ies nalf of | istacto d ackr), and which | nowled that the p | aged to by his person(| to be me to her/ti (s) act | the that beir ted, |
| WITNESS my hand and offi | icial seal. | | | | | | | | | |
| [SEAL] | | M Notai | | <u>We</u> gnature | | zùa | lge/i | <u> </u> | | |

MICHELLE BRIDGES
COMM. #1878552
Notary-Public • California
Orange County
My Comm. Expires Jan. 30, 2014

| Application No.: 12/954,547 Filing Date: November 24, 2010 | | Docket Number: TLOGS.005A Page 3 of 4 |
|---|---|--|
| IN TESTIMONY WHEREOF, | l hereur | nto set my hand and seal this 3 day of |
| | | FILL |
| | | Jason Koch |
| STATE OF CALIFORNIA | 1 | |
| | } | SS. |
| COUNTY OF | J | |
| | | |
| personally appeared Jason Koch who person(s) whose name(s) is/are subsolved the same in his | proved to cribed to t s/ber/their | ne, Michael By (45), notary public, me on the basis of satisfactory evidence to be the the within instrument, and acknowledged to me that authorized capacity(ies), and that by his/her/their the entity upon behalf of which the person(s) acted, |
| l certify under PENALTY the foregoing paragraph is true and cor | Y OF PEF rect. | RJURY under the laws of the State of California that |
| WITNESS my hand and | official se | al. |
| [SEAL] | | Michelle Bridges |
| | | Notary Signature |
| MICHELLE BRIDGES COMM. #1878552 Notary Public - California Orange County My Comm. Expires Jan. 30, 2014 | | |

Docket Number: TLOGS.005A

| Application No.: 12/954,547 Filing Date: November 24, 2010 | . [| Docket Number: TLOGS.005A Page 4 of 4 |
|--|--|---|
| IN TESTIMONY WHEREOF, | I hereunto set my hand a | nd seal this 3 day of |
| | Howard | Getur |
| | Howard Jelinek | |
| STATE OF CALIFORNIA | 1 | |
| | ss. | |
| COUNTY OF | J | |
| | | |
| on <u>July 3, 2011</u> , personally appeared Howard Jelinek who person(s) whose name(s) is/are subsche/she/they executed the same in his signature(s) on the instrument the persecuted the instrument. | no proved to me on the basis of ribed to the within instrument, s/her/the/ir authorized capacity | and acknowledged to me that (ies), and that by his/her/their |
| I certify under PENALTY the foregoing paragraph is true and con | OF PERJURY under the law rect. | s of the State of California that |
| WITNESS my hand and | official seal. | |
| [SEAL] | Modella Notary Signature | Bridger |

MICHELLE BRIDGES
COMM. #1878552
Notary Public · California
Orange County
My Comm. Expires Jan. 30, 2014

PATENT REEL: 034931 FRAME: 0116

RECORDED: 02/10/2015

11232728 051211