

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM463074

| | | | |
|---|----------------------------------|-----------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
| NATURE OF CONVEYANCE: | SECURITY INTEREST | | |
| CONVEYING PARTY DATA | | | |
| Name | Formerly | Execution Date | Entity Type |
| LIGHTBEND, INC. | FORMERLY TYPESAFE, INC. | 02/14/2018 | Corporation: DELAWARE |
| RECEIVING PARTY DATA | | | |
| Name: | HERCULES CAPITAL, INC., AS AGENT | | |
| Street Address: | 400 HAMILTON AVE., STE. 310 | | |
| Internal Address: | ATTN: LEGAL DEPARTMENT | | |
| City: | PALO ALTO | | |
| State/Country: | CALIFORNIA | | |
| Postal Code: | 94301 | | |
| Entity Type: | Corporation: MARYLAND | | |
| PROPERTY NUMBERS Total: 6 | | | |
| Property Type | Number | Word Mark | |
| Registration Number: | 5177485 | LIGHTBEND | |
| Serial Number: | 86906989 | LIGHTBEND REACTIVE PLATFORM | |
| Registration Number: | 4165433 | TYPESAFE | |
| Registration Number: | 4554495 | TYPESAFE | |
| Registration Number: | 4546449 | TYPESAFE ACTIVATOR | |
| Registration Number: | 4948966 | BOLDRADIUS | |
| CORRESPONDENCE DATA | | | |
| Fax Number: | 8585506420 | | |
| <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: | 858-550-6433 | | |
| Email: | jmfitzpatrick@cooley.com | | |
| Correspondent Name: | JENNIFER FITZPATRICK | | |
| Address Line 1: | C/O COOLEY LLP | | |
| Address Line 2: | 4401 EASTGATE MALL | | |
| Address Line 4: | SAN DIEGO, CALIFORNIA 92121 | | |
| ATTORNEY DOCKET NUMBER: | 305866-1029 | | |
| NAME OF SUBMITTER: | JENNIFER FITZPATRICK | | |

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| | |
|---|------------------------|
| SIGNATURE: | /JENNIFER FITZPATRICK/ |
| DATE SIGNED: | 02/22/2018 |
| Total Attachments: 6 source=Intellectual Property Agreement - Lightbend (2.14.2018)#page1.tif source=Intellectual Property Agreement - Lightbend (2.14.2018)#page2.tif source=Intellectual Property Agreement - Lightbend (2.14.2018)#page3.tif source=Intellectual Property Agreement - Lightbend (2.14.2018)#page4.tif source=Intellectual Property Agreement - Lightbend (2.14.2018)#page5.tif source=Intellectual Property Agreement - Lightbend (2.14.2018)#page6.tif | |

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (as amended, restated, supplemented or otherwise modified from time to time, the "Agreement") is entered into as of February 14, 2018 by and among HERCULES CAPITAL, INC., a Maryland corporation ("Agent"), and LIGHTBEND, INC. (formerly known as Typesafe, Inc.), a Delaware corporation ("Grantor").

RECITALS

A. Lender has agreed to make certain advances of money and to extend certain financial accommodation (the "Loans") to Grantor in the amounts and manner set forth in that certain Loan and Security Agreement by and among the several entities from time to time parties thereto (collectively, referred to as "Lender"), Agent, Grantor and any other parties thereto, from time to time, dated as of the date hereof (as amended, modified, supplemented or otherwise modified from time to time, the "Loan Agreement").

B. As a condition to the Loan Agreement, Grantor are required to enter into this Agreement to further evidence the grant to Agent of the security interest in its Copyrights, Trademarks and Patents to secure the Secured Obligations.

AGREEMENT

NOW, THEREFORE, Grantor agrees as follows:

To secure the Secured Obligations and any other obligations pursuant to the Loan Documents, Grantor grants and pledges to Agent a security interest in all of Grantor's Intellectual Property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto).

This security interest is granted in conjunction with the security interest granted to Agent under the Loan Agreement. The rights and remedies of Agent with respect to the security interest are as set forth in the Loan Agreement and the other Loan Documents or as are now or hereafter available to Agent as a matter of law or equity, shall be cumulative and concurrent.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all Copyrights, Patents and Trademarks in connection with which such Grantor has registered or filed an application with the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

Grantor hereby authorizes Agent to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property which Grantor obtains subsequent to the date of this Agreement, and (b) file a duplicate original of this Agreement containing amended exhibits reflecting such new Intellectual Property.

All capitalized terms used herein without definition shall have the meanings ascribed thereto in the Loan Agreement.

[SIGNATURES TO FOLLOW]

[SIGNATURE PAGE TO INTELLECTUAL PROPERTY SECURITY AGREEMENT]

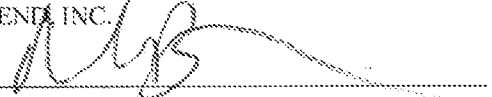
IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed effective as of the date set forth above.

Address of Grantor:

625 Market Street
10th Floor
San Francisco, CA 94105
Attention: Mark Brewer

GRANTOR:

LIGHTBEND, INC.

By: 

Name: Mark Brewer

Title: President and CEO

[SIGNATURE PAGE TO INTELLECTUAL PROPERTY SECURITY AGREEMENT]

Address of Agent:

Legal Department
400 Hamilton Avenue, Suite 310
Palo Alto, CA 94301
Attn: Loan Documentation

AGENT:

HERCULES CAPITAL, INC.

By: 

Name: Zhuo Huang

Title: Associate General Counsel

**EXHIBIT A
COPYRIGHTS**

| Description | Registration Number | Registration Date |
|--------------------|--------------------------------|------------------------------|
| None. | | |

EXHIBIT B
PATENTS

| <u>Description</u> | <u>Patent / Application Number</u> | <u>Issue / Application Date</u> |
|--|--|---|
| HIERARCHICAL SERVICE ORIENTED APPLICATION TOPOLOGY GENERATION FOR A NETWORK | 14/878,910 | 10/08/15 |
| ORGANIZING NETWORK PERFORMANCE METRICS INTO HISTORICAL ANOMALY DEPENDENCY DATA | 9,632,858 | 04/25/17 |
| ORGANIZING NETWORK PERFORMANCE METRICS INTO HISTORICAL ANOMALY DEPENDENCY DATA | 9,558,056 | 01/31/17 |
| SYSTEMS AND METHODS OF CONSTRUCTING AND MONITORING A NETWORK TOPOLOGY | 15/289,080 | 10/07/16 |
| CONTEXT-AWARE RULE ENGINE FOR ANOMALY DETECTION | 15/289,112 | 10/07/16 |
| TUNING CONTEXT-AWARE RULE ENGINE FOR ANOMALY DETECTION | 15/289,114 | 10/07/16 |
| SYSTEMS AND METHODS OF CONSTRUCTING AND MONITORING A NETWORK TOPOLOGY | 15/289,115 | 10/07/16 |
| RESOURCE AND METRIC RANKING BY DIFFERENTIAL ANALYSIS | 62/433,699 | 12/13/16 |
| ANOMALY DETECTION USING CIRCUMSTANCE-SPECIFIC DETECTORS | 14/877,923 | 10/07/15 |
| RANKING NETWORK ANOMALIES IN AN ANOMALY CLUSTER | 15/494,519 | 04/23/17 |

EXHIBIT C
TRADEMARKS

| Description | Registration/ Serial Number | Registration/ Application Date |
|-----------------------------|--|---|
| LIGHTBEND | 5,177,485 | 04/04/17 |
| LIGHTBEND REACTIVE PLATFORM | 86/906,989 | 02/12/16 |
| TYPESAFE | 4,165,433 | 06/26/12 |
| TYPESAFE | 4,554,495 | 06/24/14 |
| TYPESAFE ACTIVATOR | 4,546,449 | 06/10/14 |
| BOLDRADIUS | 4,948,966 | 05/03/16 |