

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI412500

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
NH Expansion Credit Fund Holdings LP	07/31/2024
RECEIVING PARTY DATA	
Company Name:	Lightbend, Inc.
Street Address:	580 California Street
Internal Address:	Suite 1231
City:	San Francisco
State/Country:	CALIFORNIA
Postal Code:	94104
PROPERTY NUMBERS Total: 15	
Property Type	Number
Patent Number:	9632858
Patent Number:	10454753
Patent Number:	10261851
Patent Number:	9917751
Patent Number:	10200260
Patent Number:	10228996
Patent Number:	10210038
Patent Number:	10108411
Patent Number:	10365915
Patent Number:	10404524
Application Number:	14276826
Application Number:	16133608
Application Number:	16261134
Application Number:	16276431
Application Number:	16382074
CORRESPONDENCE DATA	
Fax Number:	8586771401
<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: (619)864-3377
Email: christian.cruz@us.dlapiper.com
Correspondent Name: DLA Piper LLP (US)
Address Line 1: 4365 Executive Drive
Address Line 2: Suite 1100
Address Line 4: San Diego, CALIFORNIA 92121

NAME OF SUBMITTER:	Christian Cruz
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SIGNATURE:	Christian Cruz
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DATE SIGNED:	08/06/2024
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Total Attachments: 6

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**TERMINATION AND RELEASE OF SECURITY INTEREST
IN INTELLECTUAL PROPERTY**

This **TERMINATION AND RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY** (the “*Release*”), dated as of July 31, 2024 (the “*Release*”), is made by **NH EXPANSION CREDIT FUND HOLDINGS LP**, a Delaware limited partnership, as agent (in such capacity, “*Agent*”) in favor of **LIGHTBEND, INC.**, a Delaware corporation (the “*Grantor*”).

RECITALS

WHEREAS, Grantor granted to Agent a security interest in its copyrights, trademarks and patents, including without limitation, its copyrights described on Exhibit A, its trademarks described on Exhibit B, and its patents described on Exhibit C (collectively, the “*Intellectual Property Collateral*”), pursuant to that certain Intellectual Property Security Agreement dated as of November 4, 2020 by and between Agent and Grantor (as amended, amended and restated, supplemented, or otherwise modified from time to time, the “Security Agreement”) Grantor granted to Agent a security interest in all of Grantor’s right, title, and interest in and to the Intellectual Property Collateral (as defined in the Security Agreement.

WHEREAS, Grantor has no outstanding obligations to Agent under the terms of the Security Agreement, and Agent agrees to release its security interest in the Intellectual Property Collateral.

WHEREAS, the Security Agreement was recorded at the United States Patent and Trademark Office on November 5, 2020 at Reel/Frame 054283/0387 and Reel/Frame 7096/0713.

AGREEMENT

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Agent, without representation, warranty, or recourse, hereby (i) terminates the Security Agreement, (ii) terminates, cancels, and releases its security interest in and to the Intellectual Property Collateral granted pursuant to the Security Agreement, and (iii) reassigns to the Grantor any and all right, title and interest of any nature whatsoever which it may hold in or to the any of the Intellectual Property Collateral (including, without limitation, the copyrights described on Exhibit A, its trademarks described on Exhibit B, and its patents described on Exhibit C attached hereto) and associated common law rights and goodwill appurtenant thereto. Agent hereby acknowledges that this Release may be filed along with any other necessary documentation with the United States Patent and Trademark Office, the United States Copyright Office or any other governmental office to evidence the release granted herein at the sole expense of the. Agent authorizes the Grantor or its designees (which may include their counsel) to record this Release with the United States Patent and Trademark Office, the United States Copyright Office and any other applicable registry at the sole expense of the Grantor and authorizes the United States Patent and Trademark Office and any other applicable governmental authority to record this Release. At the request and sole expense of the Grantor, the Agent agrees to execute, acknowledge and deliver all such further instruments and to take all such further actions necessary to carry out the purposes of this Release.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Agent has caused this Release to be executed by its duly authorized representative as of the date hereof.

NH EXPANSION CREDIT FUND HOLDINGS LP

By: MS Expansion Credit GP L.P., its general partner
By: MS Expansion Credit GP Inc., its general partner

By:  DocuSigned by:
2ABDA9D69E114DD...
Name: William Reiland
Title: Managing Director

Address:

1585 Broadway, 23rd Floor
New York, NY 10036
Attn: Debra Abramovitz and William Reiland

EXHIBIT A
COPYRIGHTS

Owner	Copyrights / Copyright Application	Copyright No. / Application No.	Issue Date / Application Date
LIGHTBEND, INC.	Scala	Common Law	
LIGHTBEND, INC.	Scala IDE	Common Law	
LIGHTBEND, INC.	Scala SCA Plugin for Fortify	Common Law	
LIGHTBEND, INC.	Akka	Common Law	
LIGHTBEND, INC.	Akka Actor	Common Law	
LIGHTBEND, INC.	Akka Cluster	Common Law	
LIGHTBEND, INC.	Akka Cluster Sharding	Common Law	
LIGHTBEND, INC.	Akka Configuration Checker	Common Law	
LIGHTBEND, INC.	Akka Diagnostic Recorder	Common Law	
LIGHTBEND, INC.	Akka Distributed Data	Common Law	
LIGHTBEND, INC.	Akka HTTP	Common Law	
LIGHTBEND, INC.	Akka Fast Failover	Common Law	
LIGHTBEND, INC.	Akka gRPC	Common Law	
LIGHTBEND, INC.	GDPR for Akka Persistence	Common Law	
LIGHTBEND, INC.	Akka Kubernetes Lease	Common Law	
LIGHTBEND, INC.	Akka Management	Common Law	
LIGHTBEND, INC.	Akka Multi Data Center	Common Law	
LIGHTBEND, INC.	Akka Multi Data Center Persistence	Common Law	
LIGHTBEND, INC.	Akka Persistence	Common Law	
LIGHTBEND, INC.	Akka Platform	Common Law	
LIGHTBEND, INC.	Akka Split Brain Resolver	Common Law	
LIGHTBEND, INC.	Akka Streams	Common Law	
LIGHTBEND, INC.	Akka Thread Starvation Detector	Common Law	
LIGHTBEND, INC.	Alpakka	Common Law	
LIGHTBEND, INC.	Alpakka Connectors	Common Law	
LIGHTBEND, INC.	Alpakka Kafka	Common Law	
LIGHTBEND, INC.	Cloudflow	Common Law	
LIGHTBEND, INC.	Cloudflow Enterprise	Common Law	
LIGHTBEND, INC.	Cloudstate	Common Law	
LIGHTBEND, INC.	Lightbend Console	Common Law	
LIGHTBEND, INC.	Lightbend Platform	Common Law	
LIGHTBEND, INC.	Lightbend Telemetry	Common Law	
LIGHTBEND, INC.	Play	Common Law	
LIGHTBEND, INC.	Play IDE	Common Law	
LIGHTBEND, INC.	sbt	Common Law	
LIGHTBEND, INC.	Reactive Platform	Common Law	
LIGHTBEND, INC.	Enterprise Suite / Production Suite	Common Law	
LIGHTBEND, INC.	Slick	Common Law	
LIGHTBEND, INC.	Slick Extensions	Common Law	
LIGHTBEND, INC.	Spray	Common Law	

Owner	Copyrights / Copyright Application	Copyright No. / Application No.	Issue Date / Application Date
LIGHTBEND, INC.	Activator	Common Law	
LIGHTBEND, INC.	dbuild	Common Law	
LIGHTBEND, INC.	config	Common Law	
LIGHTBEND, INC.	mima	Common Law	
LIGHTBEND, INC.	Lagom	Common Law	
LIGHTBEND, INC.	ConductR	Common Law	
LIGHTBEND, INC.	OpsClarity	Common Law	
LIGHTBEND, INC.	Reactive Monitoring	Common Law	

EXHIBIT B
TRADEMARKS

<u>Mark / Title:</u>	<u>U.S. Serial Number:</u>	<u>U.S. Registration Number:</u>	<u>USPTO Reference Number:</u>	<u>Filing Date:</u>
TYPESAFE		4165433 4554495		June 26, 2012 June 24, 2014
Typesafe Activator		4546449		June 10, 2014
LIGHTBEND		15282511 European Union (Community)		August 2, 2016
Lightbend Reactive Platform		015721442 European Union (Community)		November 23, 2016

THE COMPANY HAS APPLIED FOR THE FOLLOWING TRADEMARKS:

MARK	COUNTRY	APPLICATION NO.	FILING DATE	STATUS
LIGHTBEND	UNITED STATES	86/852164	DECEMBER 17, 2015	REGISTERED APRIL 4, 2017
LIGHTBEND REACTIVE PLATFORM	UNITED STATES	86/906989	FEBRUARY 12, 2016	REGISTERED NOVEMBER 23, 2016
TYPESAFE CONDUCTR	UNITED STATES	86/489565	DECEMBER 23, 2014	ABANDONED

EXHIBIT C

PATENTS

HBW Ref. No.	Application No.	Date Filed	Status	Country	Title	Patent No.	Date Issued	Inventor(s)	Due Date	Next Action
LBND 1000-1	61856279	7/29/2013	Closed	US	System and Method To Find Correlations Between Anomalies (any Unexpected Changes) Detected Across Any Data Set, Including But Not Limited To Operational Data In Informational Technology Systems			SASTURKAR, Amit NGAL, Alan		
LBND 1000-2	61856282	7/29/2013	Closed	US	System and Method for Presenting The Evolution Of System State In An Infrastructure (consisting Of A Network Of Resources) Over Time			SASTURKAR, Amit NGAL, Alan		
LBND 1000-3	61856280	7/29/2013	Closed	US	System and Method To Rank Anomalies (any Unexpected Changes) Detected Across Any Data Set, Including But Not Limited To Data In Informational Technology Systems			SASTURKAR, Amit NGAL, Alan		
LBND 1000-4	14276826	9/13/2014	Issued/Granted	US	Organizing Network Performance Metrics Into Historical Anomaly Dependency Data		10/1/2017	SASTURKAR, Amit NGAL, Alan	1/6/2021	3.5 Maintenance Fee
LBND 1000-5	14276846	9/13/2014	Issued/Granted	US	Organizing Network Performance Metrics Into Historical Anomaly Dependency Data	9,632,898	4/25/2017	SASTURKAR, Amit NGAL, Alan	4/25/2021	3.5 Maintenance Fee
LBND 1000-6	15494519	4/23/2017	Issued/Granted	US	Ranking Network Anomalies in an Anomaly Cluster	10,454,753	10/22/2019	SASTURKAR, Amit NGAL, Alan	4/22/2023	3.5 Maintenance Fee
LBND 1001-1	620107340	1/23/2015	Closed	US	Anomaly Detection Using Circumstance-specific Detectors			VELIPASAGLU, Omer Emre		
LBND 1001-2	14877323	1/07/2015	Issued/Granted	US	Anomaly Detection Using Circumstance-Specific Detectors	10,261,851	4/16/2019	VELIPASAGLU, Omer Emre SURANA, Vishal SASTURKAR, Amit	1/16/2022	3.5 Maintenance Fee
LBND 1001-3	16382074	4/11/2019	Published	US	Anomaly Detection Using Circumstance-Specific Detectors			VELIPASAGLU, Omer Emre SURANA, Vishal SASTURKAR, Amit	1/11/2020	Waiting for First Office Action
LBND 1002-1	620166489	6/1/2015	Closed	US	Hierarchical Service Oriented Application Topology Generation for a Network			SASTURKAR, Amit VELIPASAGLU, Omer Emre SURANA, Vishal		
LBND 1002-2	14878910	1/08/2015	Issued/Granted	US	Hierarchical Service Oriented Application Topology Generation for a Network	9,917,751	3/13/2018	SASTURKAR, Amit VELIPASAGLU, Omer Emre SURANA, Vishal VORA, Abhinav MA, Aiyasha	3/13/2022	3.5 Maintenance Fee
LBND 1002-3	15519564	3/12/2018	Issued/Granted	US	Hierarchical Service Oriented Application Topology Generation for a Network	10,200,260	2/5/2019	SASTURKAR, Amit VELIPASAGLU, Omer Emre SURANA, Vishal VORA, Abhinav MA, Aiyasha	8/9/2022	3.5 Maintenance Fee
LBND 1002-4	16061134	1/29/2019	Under Exam	US	Hierarchical Service Oriented Application Topology Generation for a Network			SASTURKAR, Amit SURANA, Vishal VELIPASAGLU, Omer Emre VORA, Abhinav MA, Aiyasha		Response filed 2020-01-03 Waiting for Next Office Action
LBND 1003-1	620239179	1/08/2015	Closed	US	Context-Aware Rule Engine for Anomaly Detection			SASTURKAR, Amit VELIPASAGLU, Omer Emre SURANA, Vishal CHETTIVAR, Uday KEJARWAL, Arun JAIN, Dhivy ABDUL-HAFEEZ, Mohamed		
LBND 1003-2	15286112	1/07/2016	Issued/Granted	US	Context-Aware Rule Engine for Anomaly Detection	10,228,956	3/12/2019	SASTURKAR, Amit VELIPASAGLU, Omer Emre SURANA, Vishal CHETTIVAR, Uday KEJARWAL, Arun JAIN, Dhivy ABDUL-HAFEEZ, Mohamed	9/12/2022	3.5 Maintenance Fee
LBND 1003-3	15286114	1/07/2016	Issued/Granted	US	Tuning Context-Aware Rule Engine for Anomaly Detection	10,210,038	2/19/2019	SASTURKAR, Amit VELIPASAGLU, Omer Emre SURANA, Vishal CHETTIVAR, Uday KEJARWAL, Arun JAIN, Dhivy ABDUL-HAFEEZ, Mohamed	9/19/2022	3.5 Maintenance Fee
LBND 1003-4	16276431	2/14/2019	Published	US	Tuning Context-Aware Rule Engine for Anomaly Detection			SASTURKAR, Amit KEJARWAL, Arun CHETTIVAR, Uday SURANA, Vishal VELIPASAGLU, Omer Emre JAIN, Dhivy ABDUL-HAFEEZ, Mohamed	1/14/2020	Waiting for First Office Action
LBND 1004-1	620236224	1/08/2015	Closed	US	Systems and Methods of Constructing and Monitoring a Network Topology			ARUNACHALAM, Aravind SASTURKAR, Amit NGAL, Alan VELIPASAGLU, Omer Emre SURANA, Vishal VORA, Abhinav MA, Aiyasha KEMPE, Oliver ARUNACHALAM, Narayanan		
LBND 1004-2	15286080	1/07/2016	Issued/Granted	US	Systems and Methods of Constructing a Network Topology	10,108,411	10/23/2018	VORA, Abhinav MA, Aiyasha SASTURKAR, Amit KEMPE, Oliver ARUNACHALAM, Narayanan NGAL, Alan SURANA, Vishal VELIPASAGLU, Omer Emre	4/23/2022	3.5 Maintenance Fee
LBND 1004-3	15286115	1/07/2016	Issued/Granted	US	Systems and Methods of Monitoring a Network Topology	10,365,915	7/30/2019	VORA, Abhinav SASTURKAR, Amit KEMPE, Oliver ARUNACHALAM, Narayanan NGAL, Alan SURANA, Vishal VELIPASAGLU, Omer Emre	1/30/2023	3.5 Maintenance Fee
LBND 1004-4	16133608	9/17/2018	Published	US	Systems and Methods of Constructing a Network Topology			VORA, Abhinav MA, Aiyasha SASTURKAR, Amit KEMPE, Oliver ARUNACHALAM, Narayanan NGAL, Alan SURANA, Vishal VELIPASAGLU, Omer Emre		Waiting for First Office Action
LBND 1005-1	62433699	12/13/2016	Closed	US	Resource and Metric Ranking by Differential Analysis			NGAL, Alan VELIPASAGLU, Omer Emre CHETTIVAR, Uday KEJARWAL, Arun UPSON, Craig		
LBND 1005-2	15841198	12/13/2017	Issued/Granted	US	Resource and Metric Ranking by Differential Analysis	10,404,524	9/9/2019	NGAL, Alan VELIPASAGLU, Omer Emre CHETTIVAR, Uday KEJARWAL, Arun UPSON, Craig	3/9/2023	3.5 Maintenance Fee
LBND 1006-1	62856674	6/8/2019	Pending	US	Automated Determination of Operating Parameter Configurations for Applications			VELIPASAGLU, Omer Emre NGAL, Alan	6/8/2020	FILE UTILITY APPLICATION FOREIGN FILING DUE

PATENT

RECORDED: 08/06/2024

REEL: 068202 FRAME: 0024