

## 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>
ALEX BRASETVIK	02/27/2018
NJAL KAREVOLL	02/27/2018
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15907011
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	PA9051US
<b>NAME OF SUBMITTER:</b>	JERSEY MIRANDA
<b>SIGNATURE:</b>	/Jersey Miranda/
<b>DATE SIGNED:</b>	05/31/2018
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, **Alex Brasetvik** and **Njal Karevoll**, do hereby sell, assign, and transfer to **Elasticsearch B.V.**, a **limited liability company** with offices at **800 West El Camino Real, Suite 350, Mountain View, CA 94040** ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in United States patent application number 15/907,011 filed February 27, 2018 and entitled:

**"Self-Replicating Management Services for Distributed Computing Architectures"**

and in and to said application and all utility, divisional, continuing, substitute, renewal, reissue, and all other patent applications which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States patent application; and

Agree that said Assignee may apply for and receive patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history

thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

We hereby authorize and request Carr & Ferrell *LLP*, to insert the filing date and application number of this application upon allocation of this information by the United States Patent and Trademark Office.

Date: 2018-02-27 Name: Alex Brasetvik  
Alex Brasetvik

Date: 2018-02-27 Name: Njal Karevoll  
Njal Karevoll