

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4522354

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	AYLA NETWORKS, INC.	07/24/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	EAST WEST BANK	
<b>Street Address:</b>	9300 FLAIR DRIVE, 6TH FLOOR	
<b>City:</b>	EL MONTE	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	91731	
<b>PROPERTY NUMBERS Total: 22</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	13173038	
Application Number:	14307306	
Application Number:	14525098	
Application Number:	13908971	
Application Number:	14515252	
Application Number:	14515407	
Application Number:	14308052	
Application Number:	14515265	
Application Number:	14515281	
Application Number:	14515397	
Application Number:	15233754	
Application Number:	15243474	
Application Number:	15244998	
Application Number:	15250596	
Application Number:	15250652	
Application Number:	15251505	
Application Number:	15251516	
Application Number:	15055409	
Application Number:	15154135	
Application Number:	15475086	

Property Type	Number
Application Number:	62526929
Application Number:	62483791

**CORRESPONDENCE DATA**

**Fax Number:** (858)638-5130

*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:** 858-677-1400

**Email:** susan.reynholds@dlapiper.com

**Correspondent Name:** DLA PIPER LLP (US)

**Address Line 1:** 4365 EXECUTIVE DRIVE, SUITE 1100

**Address Line 4:** SAN DIEGO, CALIFORNIA 92121

<b>NAME OF SUBMITTER:</b>	MATT SCHWARTZ
<b>SIGNATURE:</b>	/s/ Matt Schwartz
<b>DATE SIGNED:</b>	07/26/2017

**Total Attachments: 9**

- source=Ayla IPAS#page1.tif
- source=Ayla IPAS#page2.tif
- source=Ayla IPAS#page3.tif
- source=Ayla IPAS#page4.tif
- source=Ayla IPAS#page5.tif
- source=Ayla IPAS#page6.tif
- source=Ayla IPAS#page7.tif
- source=Ayla IPAS#page8.tif
- source=Ayla IPAS#page9.tif

**INTELLECTUAL PROPERTY SECURITY AGREEMENT**

**This Intellectual Property Security Agreement** (the "**Agreement**"), dated as of July 24, 2017, is entered into between **EAST WEST BANK**, as Agent for the Lenders ("**Agent**"), and **AYLA NETWORKS, INC.**, a Delaware corporation ("**Grantor**"), and is made with reference to the Loan and Security Agreement, dated as of the date hereof, by and among Grantor, Agent and the Lenders named therein (as amended from time to time, the "**Loan Agreement**"). Terms defined in the Loan Agreement have the same meaning when used in this Agreement.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Loan Agreement, Grantor grants to Agent, for the Lenders' benefit, a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property (collectively, the "**Intellectual Property Collateral**"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "**Copyrights**"), including the Copyrights described in **Exhibit A**;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Borrower connected with and symbolized by such trademarks (other than any intent-to-use trademark if this Agreement would constitute an assignment thereof to Agent) (collectively, the "**Trademarks**"), including the Trademarks described in **Exhibit B**;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "**Patents**"), including the Patents described in **Exhibit C**;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "**Mask Works**");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

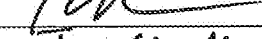
(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) proceeds and products of the foregoing, including, without limitation, all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The rights and remedies of Agent with respect to the security interests granted hereunder are in addition to those set forth in the Loan Agreement, and those which are now or hereafter available to Agent as a matter of law or equity. Each right, power and remedy of Agent provided for herein or in the Loan Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Agent of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Agent of any other rights, powers or remedies.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

**AYLA NETWORKS, INC.**

By:   
Name: Tom Clark  
Title: CFO

**EAST WEST BANK, as Agent**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

*(Signature Page to Intellectual Property Security Agreement)*


The rights and remedies of Agent with respect to the security interests granted hereunder are in addition to those set forth in the Loan Agreement, and those which are now or hereafter available to Agent as a matter of law or equity. Each right, power and remedy of Agent provided for herein or in the Loan Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Agent of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Agent of any other rights, powers or remedies:

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

**AYLA NETWORKS, INC.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**EAST WEST BANK, as Agent**

By:   
Name: Alexis Coyle  
Title: Managing Director

*(Signature Page to Intellectual Property Security Agreement)*

**EXHIBIT A  
COPYRIGHTS**

None.

**EXHIBIT B  
TRADEMARKS**

<b>Trademark</b>	<b>Status</b>	<b>Application/Registration Number</b>	<b>Application/Registration Date</b>	<b>Country</b>
AYLA INSIGHTS	Registered	5079315	November 8, 2016	USA
 Ayla Networks	Registered	4891760	January 26, 2016	USA
AYLA NETWORKS	Registered	4891758	January 26, 2016	USA
AYLA NETWORKS	Registered	014483663	December 14, 2015	European Union
 Ayla Networks	Registered	014483689	December 30, 2015	European Union
AYLA	Registered	16428102	April 21, 2016	China
AYLA NETWORKS	Pending	16428121	March 2, 2015	China
 (Leaf Logo)	Pending	16428210	March 2, 2015	China

**EXHIBIT C  
PATENTS**

<b>Description</b>	<b>Registration/Application Number</b>	<b>Registration/Application Date</b>	<b>Country</b>
Communicating through a server between appliances and applications	13/173,038	6/30/2011	USA
Patching improvement for executables in memory constrained devices	14/307,306	6/17/2014	USA
Flexible device templates for connected consumer devices	14/525,098	10/27/2014	USA
Proximity based communication with embedded system	13/908,971	6/3/2013	USA
Role based access control for connected consumer devices	14/5152,52	10/15/2014	USA
Applications in a flexible registration framework	14/515,407	10/15/2014	USA
Efficient notification protocol through firewalls	14/308,052	6/18/2014	USA
Flexible rules for engine managing connected consumer devices	14/515,265	10/15/2014	USA
Registration framework for connected consumer devices	14/515,281	10/15/2014	USA
Devices in a flexible registration framework	14/515,397	10/15/2014	USA



<b>Description</b>	<b>Registration/Application Number</b>	<b>Registration/Application Date</b>	<b>Country</b>
Proximity based communication with embedded system	15/233,754	8/10/2016	USA
Linked user accounts for an internet-of-things platform	15/243,474	8/22/2016	USA
Feed service engine	15/244,998	8/23/2016	USA
Management of gateway device using virtual gateway device	15/250,596	8/29/2016	USA
Compact schedules for resource constrained devices	15/250,652	8/29/2016	USA
Management of multi-radio gateway device using virtual gateway device	15/251,505	8/30/2016	USA
Data streaming service for an internet-of-things platform	15/251,516	8/30/2016	USA
Local over the air update of an embedded system	15/055,409	2/26/2016	USA
Metadata tables for time-series data management	15/154,135	5/13/2016	USA
Multi-tagged multi-tenant rate limiting	15/475,086	3/30/2017	USA
Connectivity state optimization to devices in a mobile environment	62/526,929	6/29/2017	USA
Third party application control of devices in an iot platform	62/483,791	4/10/2017	USA
Flexible device templates for connected consumer	201580056786.1	8/27/2015	CN

<b>Description</b>	<b>Registration/Application Number</b>	<b>Registration/Application Date</b>	<b>Country</b>
devices			
Registration framework for connected consumer devices	201580056268.X	8/27/2015	CN
Flexible rules engine for managing connected consumer devices	201580068346.8	8/27/2015	CN
Role based access control for connected consumer devices	201580056220.9	8/27/2015	CN
Flexible device templates for connected consumer devices	15854348.8	8/27/2015	EP
Registration framework for connected consumer devices	15851176.6	8/27/2015	EP
Flexible rules engine for managing connected consumer devices	15851597.3	8/27/2015	EP
Role based access control for connected consumer devices	15851325.9	8/27/2015	EP
Management of multi-radio gateway device using virtual gateway device	PCT/US16/49668	8/31/2016	WO
Management of gateway device using virtual gateway device	PCT/US16/49501	8/30/2016	WO
Compact schedules for resource-constrained devices	PCT/US16/49502	8/30/2016	WO
Data streaming service for an	PCT/US16/49673	8/31/2016	WO

<b>Description</b>	<b>Registration/Application Number</b>	<b>Registration/Application Date</b>	<b>Country</b>
internet-of-things platform			
Feed service engine	PCT/US16/48329	8/24/2016	WO
Linked user accounts for an internet-of-things platform	PCT/US16/48192	8/23/2016	WO
Registration framework for connected consumer devices	PCT/US15/47277	8/27/2015	WO
Flexible rules engine for managing connected consumer devices	PCT/US15/47280	8/27/2015	WO
Role based access control for connected consumer devices	PCT/US15/47283	8/27/2015	WO
Local over the air update of an embedded system	PCT/US17/18351	2/17/2017	WO
Multi-tagged multi- tenant rate limiting	PCT/US17/25439	3/31/2017	WO