

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4452392

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RYAN PERRY	04/16/2014
JEFFREY HALL SEIBERT JR.	04/14/2014
ZHEN MA	04/09/2014
MATT MASSICOTTE	04/02/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TWITTER, INC.
<b>Street Address:</b>	1355 MARKET STREET
<b>Internal Address:</b>	SUITE 900
<b>City:</b>	SAN FRANCISCO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94103
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15617169
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>	
<b>Phone:</b>	(202) 638-6509
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	CRAIG E. CARLSON
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	16113-7637003
<b>NAME OF SUBMITTER:</b>	EDWARD G. FAETH
<b>SIGNATURE:</b>	/Edward G. Faeth/
<b>DATE SIGNED:</b>	06/09/2017
<b>Total Attachments: 8</b>	

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source=16113-7637003 Inv to Twitter#page8.tif

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SYSTEM AND METHOD FOR PROVIDING A WATCHDOG TIMER TO ENABLE COLLECTION OF CRASH DATA	14/100,579 / Twitter Docket No. TP11141	12/09/2013

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If Assignee needs to assert any of the Patent claims against any Entity for other than a Defensive Purpose, Assignees must obtain prior written permission from all of the Inventors without additional consideration or threat.

"Entity" means an individual, partnership, corporation, limited liability company, association, joint venture, trust, unincorporated organization or other entity. "Affiliate" means with respect to any Entity, any other Entity, whether or not existing on the date hereof, controlling controlled by or under common control with such first Entity. The term "control" (including with correlative meaning the terms "controlled by" and "under common control with"), as used with respect to any Entity, means the possession, directly or indirectly, of the power to direct or cause the direction or

management and policies of such Entity, whether through the ownership of voting securities, by contract or otherwise.

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3. Inventors agree that Assignee may apply for and receive patents for Subject Matter in Assignee's own name. Inventors agree, when requested, and without further consideration, to execute all papers necessary to fully secure to Assignee the rights, titles and interests herein conveyed. Inventors represent that Inventors have the rights, titles, and interests to convey as set forth herein; and Inventors covenant with Assignee that Inventors have not made and will not make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed, except as explicitly set forth herein.
4. The Assignee hereby grants to the Inventors a perpetual, worldwide, non-exclusive, royalty-free, no-charge irrevocable license under the Patents, the license explicitly limited to those rights necessary to enforce the promises made by Assignee in section 2. Accordingly, if Assignee asserts any of the Patent claims against any entity in a manner that breaks the promises of section 2, the Inventors, individually or jointly, may grant written nonexclusive sublicenses, without the right to further sublicense, the scope of the sublicense being limited to those rights necessary to enforce the promises made by Assignee in section 2.

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AGREED TO AND ACCEPTED:

Ryan Perry Inventor  
Ryan Perry

Date: April 16, 2014

\_\_\_\_\_  
Jeffrey Hall Seibert, Jr.

Date: \_\_\_\_\_

\_\_\_\_\_  
Zhen Ma

Date: \_\_\_\_\_

\_\_\_\_\_  
Matt Massicotte

Date: \_\_\_\_\_

\_\_\_\_\_  
Benjamin S. Lee, Legal Director

Date: \_\_\_\_\_



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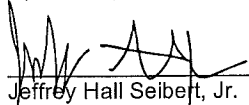
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AGREED TO AND ACCEPTED:

\_\_\_\_\_  
Ryan Perry

Date: \_\_\_\_\_

  
Jeffrey Hall Seibert, Jr.

Date: 4/14/2014

\_\_\_\_\_  
Zhen Ma

Date: \_\_\_\_\_

\_\_\_\_\_  
Matt Massicotte

Date: \_\_\_\_\_

\_\_\_\_\_  
Benjamin S. Lee, Legal Director

Date: \_\_\_\_\_

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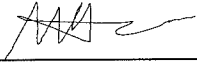
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_____ Ryan Perry	Inventor	Date: _____
_____ Jeffrey Hall Seibert, Jr.	Inventor	Date: _____
 _____ Zhen Ma	Inventor	Date: 04/09/2014
_____ Matt Massicotte	Inventor	Date: _____
_____ Benjamin S. Lee, Legal Director	Twitter, Inc.	Date: _____



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\_\_\_\_\_  
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Date: \_\_\_\_\_

\_\_\_\_\_  
Jeffrey Hall Seibert, Jr. Inventor

Date: \_\_\_\_\_

\_\_\_\_\_  
Zhen Ma Inventor

Date: \_\_\_\_\_

\_\_\_\_\_  
Matt Masciocotte Inventor

Date: April 2, 2014

\_\_\_\_\_  
Benjamin S. Lee, Legal Director Twitter, Inc.

Date: July 9, 2014