

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4498945

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NIKHIL JOHRI	02/12/2016
BALAMANOHAR PALURI	05/05/2016
LUBOMIR BOURDEV	03/07/2012
RECEIVING PARTY DATA	
Name:	FACEBOOK, INC.
Street Address:	1601 WILLOW ROAD
City:	MENLO PARK
State/Country:	CALIFORNIA
Postal Code:	94025
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14983385
CORRESPONDENCE DATA	
Fax Number:	(650)815-2601
<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:	(650)815-2600
Email:	svpatents@sheppardmullin.com, dmcgovern@sheppardmullin.com
Correspondent Name:	SHEPPARD MULLIN RICHTER & HAMPTON LLP
Address Line 1:	379 LYTTON AVENUE
Address Line 2:	ATTN: JAMES W. SOONG
Address Line 4:	PALO ALTO, CALIFORNIA 94301
ATTORNEY DOCKET NUMBER:	36FB-180243
NAME OF SUBMITTER:	JAMES W. SOONG
SIGNATURE:	/James W. Soong/
DATE SIGNED:	07/11/2017
Total Attachments: 10	
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COMBINED ASSIGNMENT/DECLARATION (37 CFR 1.63)

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Facebook, Inc., a Delaware corporation, having a place of business at 1601 Willow Road, Menlo Park, California 94025 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

Application No. 14/983,385, entitled "SYSTEMS AND METHODS FOR IMAGE RECOGNITION NORMALIZATION AND CALIBRATION" filed on December 29, 2015.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Title: SYSTEMS AND METHODS FOR IMAGE RECOGNITION
NORMALIZATION AND CALIBRATION
Date Filed: December 29, 2015
Application No.: 14/983,385

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

By signing below, INVENTOR further attests to the following:

- The APPLICATION was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATION.
- INVENTOR acknowledges the duty to disclose to the United States Patent and Trademark Office all information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56, which for a continuation-in-part includes information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56 that became available between the filing date of the prior patent application and the National or PCT filing date of the continuation-in-part application.

INVENTOR hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name and Signature _____



Nikhil Johri

Date of Signature _____

02/12/2016

Name and Signature _____

Balamanohar Paluri

Date of Signature _____

Name and Signature _____

Lubomir Bourdev

Date of Signature _____

Title: SYSTEMS AND METHODS FOR IMAGE RECOGNITION
NORMALIZATION AND CALIBRATION
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Name and Signature _____

Date of Signature _____

Nikhil Johri

Name and Signature _____

Date of Signature _____

P. Manohar

Balamanohar Paluri

02/05/16

Name and Signature _____

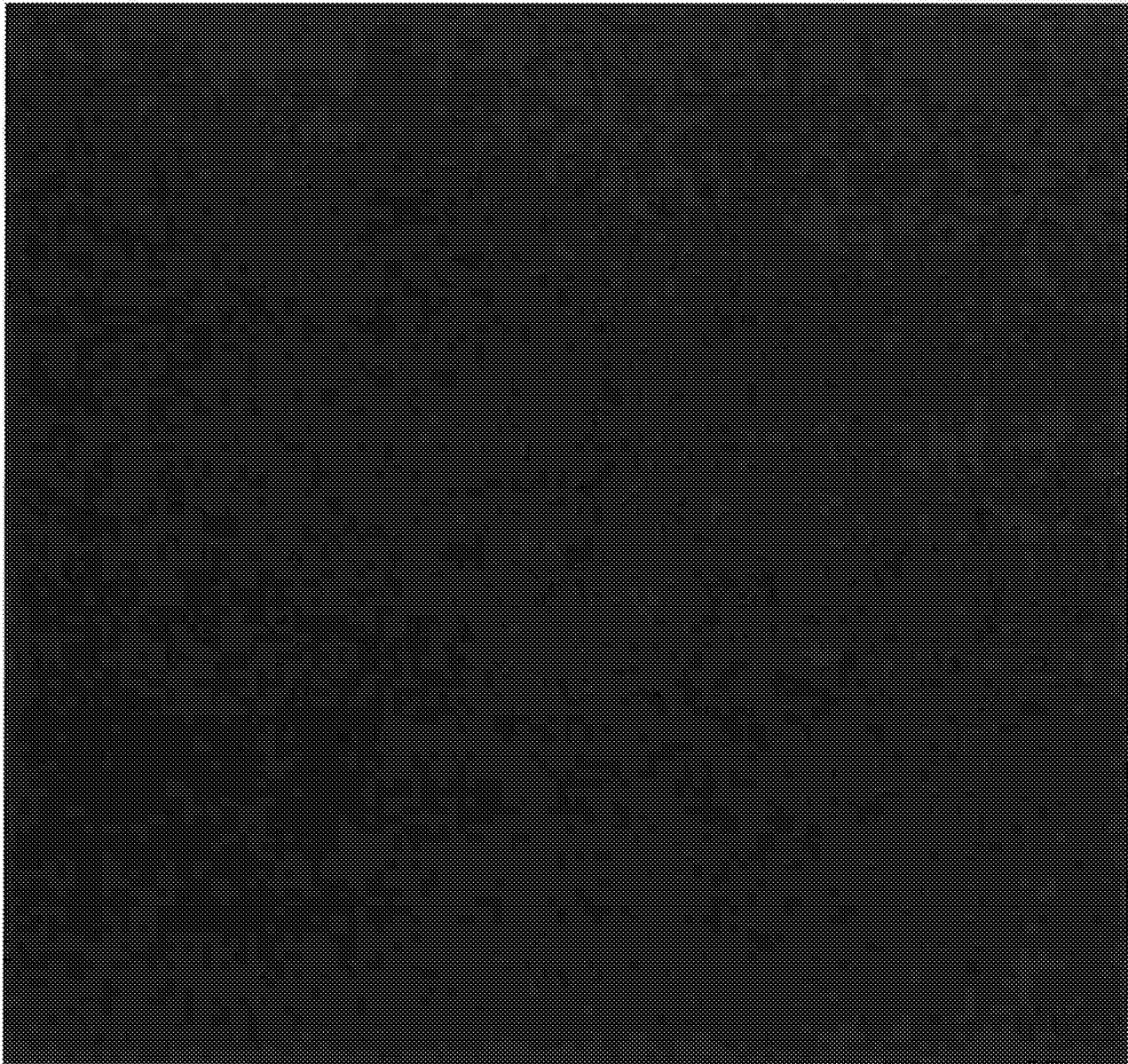
Date of Signature _____

Lubomir Bourdev

**CONFIDENTIAL INFORMATION AND
INVENTION ASSIGNMENT AGREEMENT**

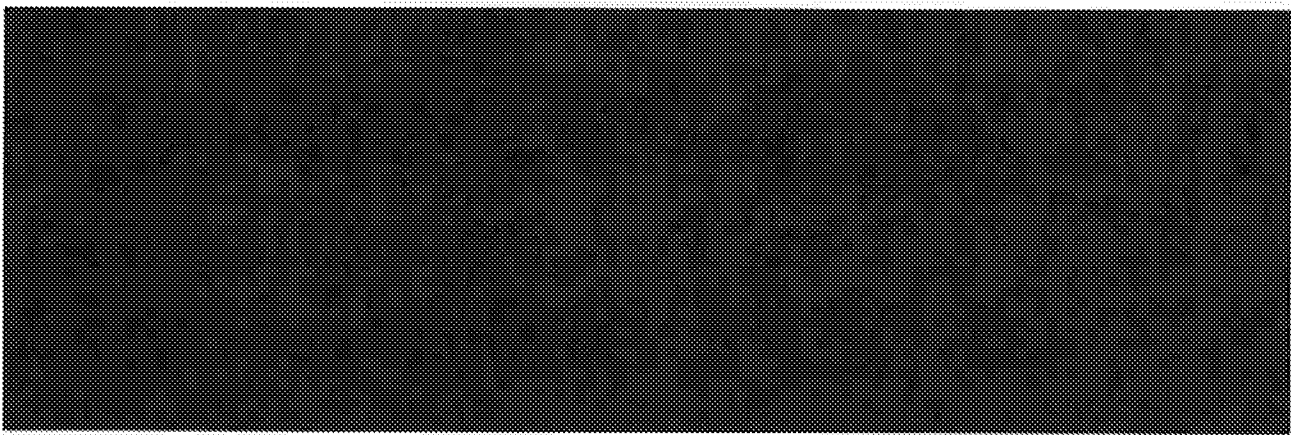
FOR EMPLOYEES

As a condition of my becoming employed (or my employment being continued) by Facebook, Inc., a Delaware corporation or any of its current or future subsidiaries, affiliates, successors or assigns (collectively, the "Company" or "Facebook"), and in consideration of my employment with the Company and my receipt of the compensation now and hereafter paid to me by the Company, I agree to the following:






5. Inventions.

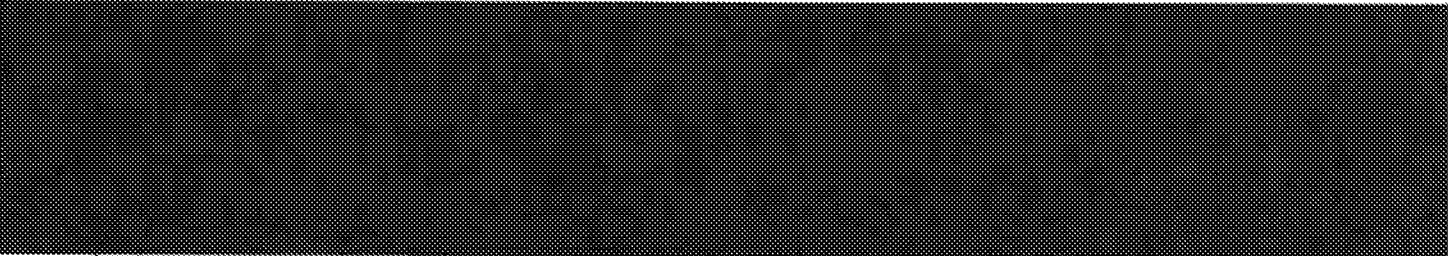


(b) Assignment of Inventions. I agree that I will promptly make full written disclosure to Facebook, will hold in trust for the sole right and benefit of Facebook, and hereby assign to Facebook, or its designee, all my right, title and interest throughout the world in and to any and all inventions, original works of authorship, developments, concepts, know-how, designs, improvements or trade secrets, whether or not patentable or registrable under copyright or similar laws, which I may solely or jointly conceive or develop or reduce to practice, or cause to be conceived or developed or reduced to practice, during the period of my Relationship with the Company (collectively referred to as "inventions"), except as provided in Section 5(e) below. I further acknowledge that all Inventions which are made by me (solely or jointly with others) within the scope of and during the period of my Relationship with the Company are "works made for hire" (to the greatest extent permitted by applicable law) and are compensated by my salary unless regulated

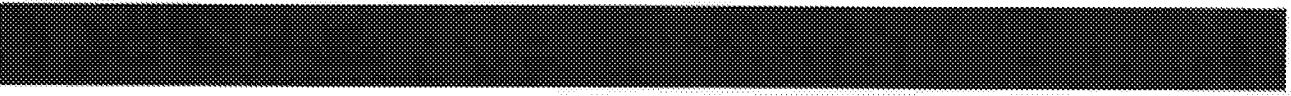
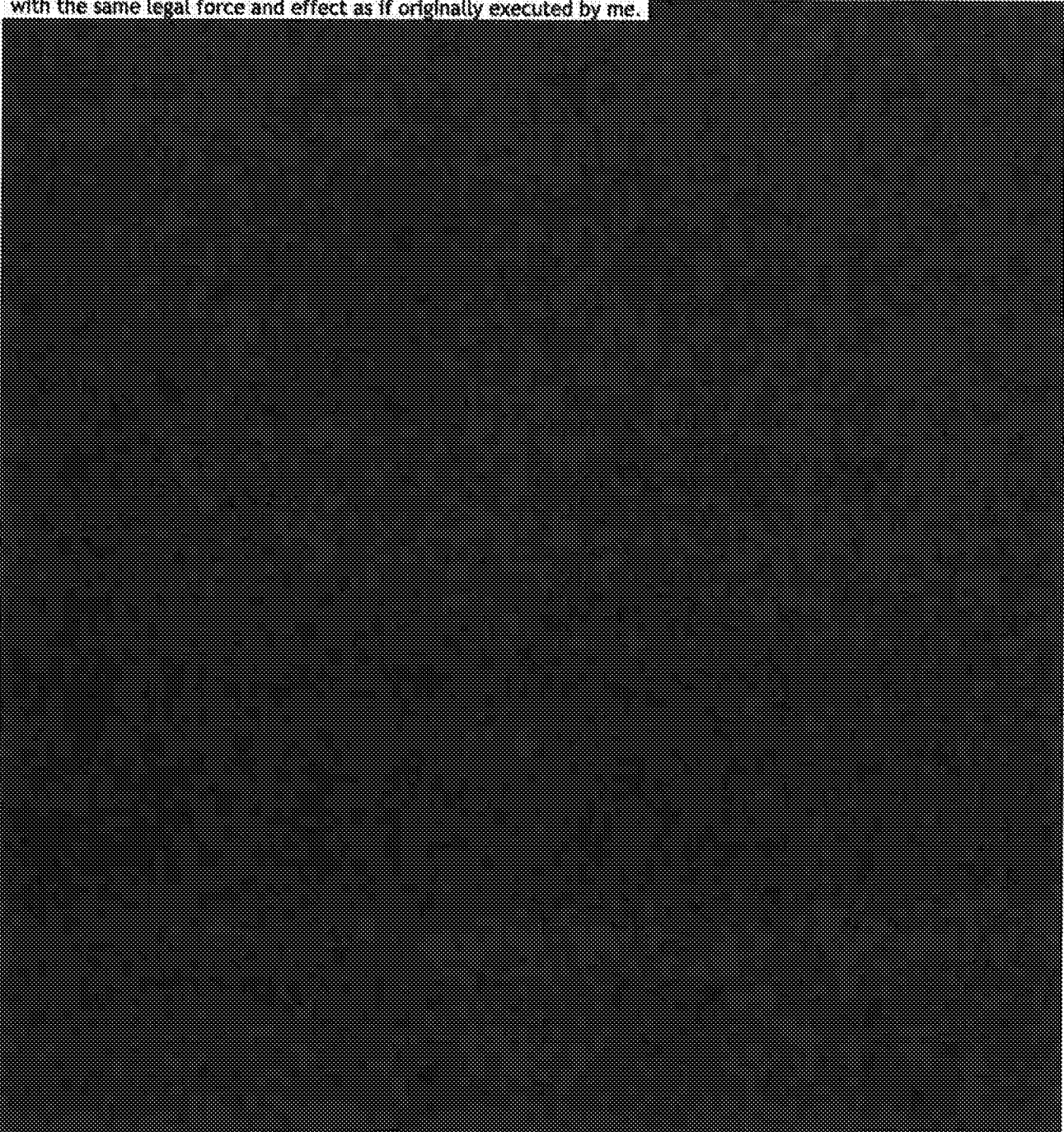


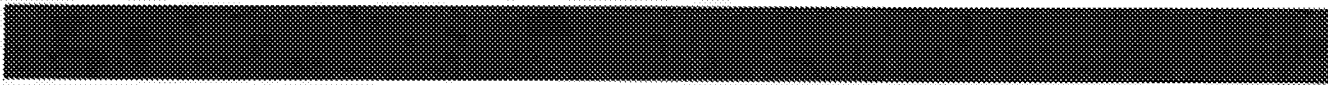
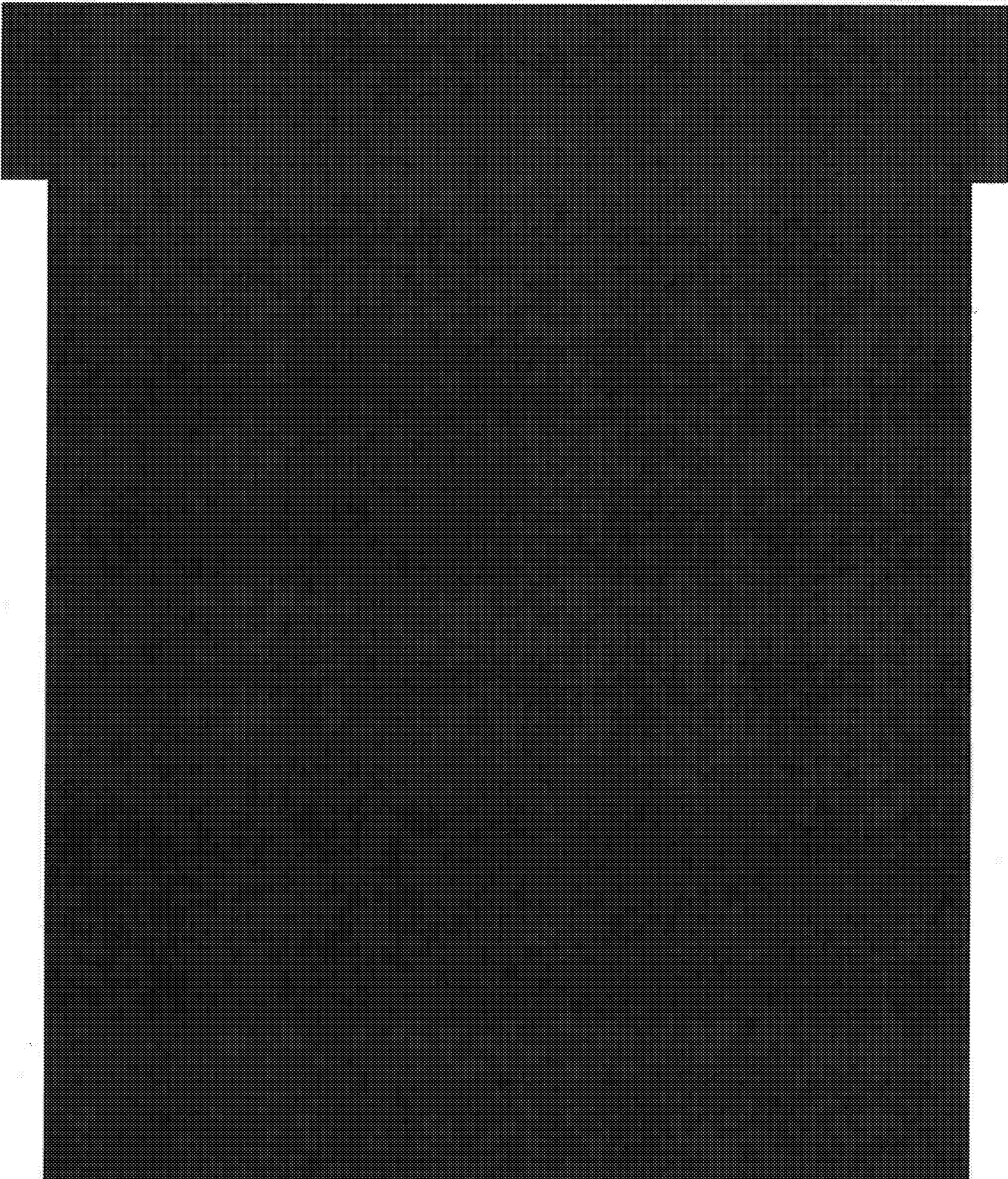
otherwise by the mandatory law of the state of California. To the maximum extent permitted by applicable law, I hereby waive and agree not to enforce any moral rights I may have on or to any such Inventions.

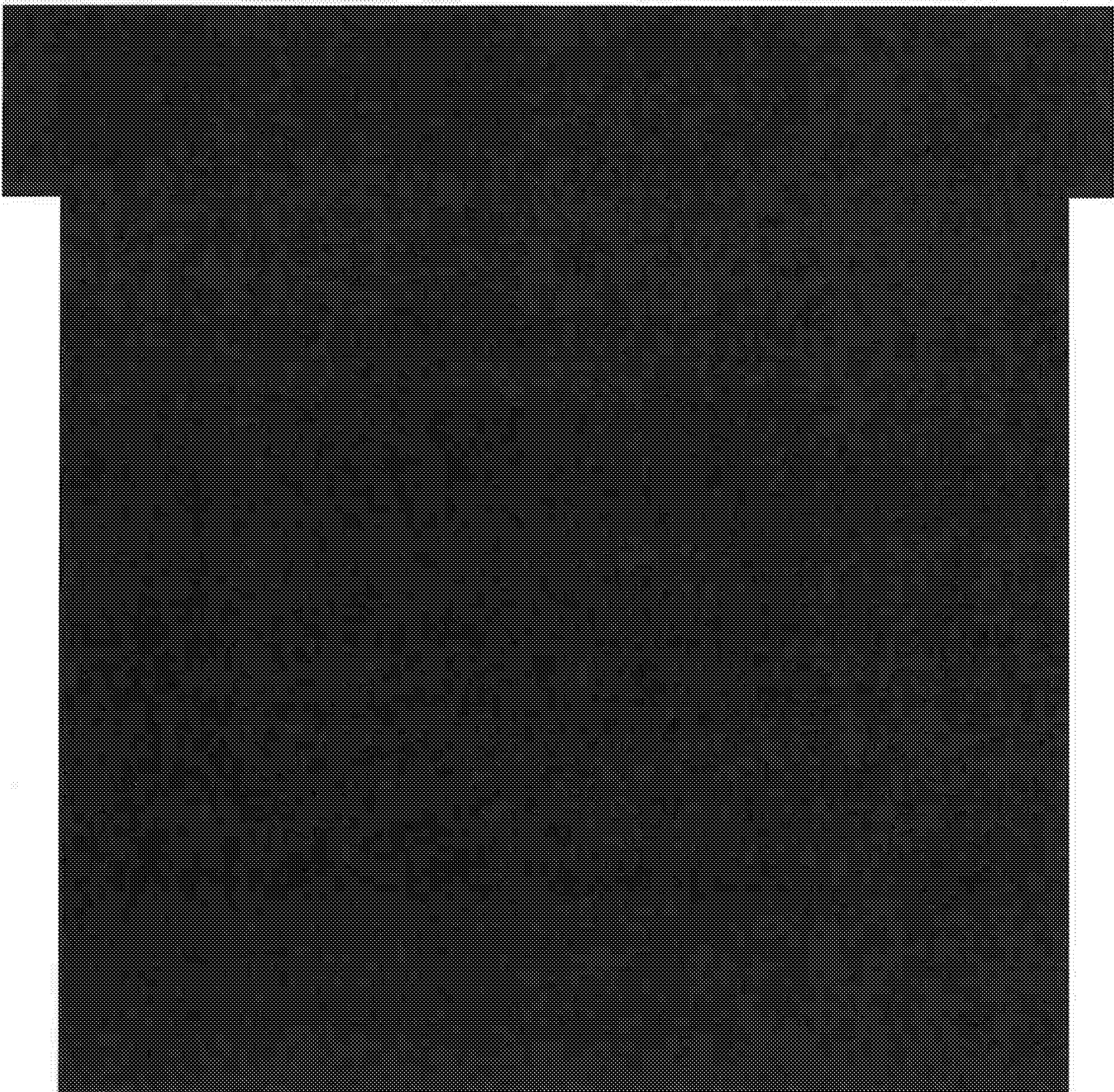
If Facebook or its designee is unable because of my mental or physical incapacity or unavailability or for any other reason to secure my signature to apply for or to pursue any application for any United States or



foreign patents, copyright, mask works or other registrations covering inventions or original works of authorship assigned to Facebook or its designee as above, then I hereby irrevocably designate and appoint Facebook and its duly authorized officers and agents as my agent and attorney in fact, to act for and in my behalf and stead to execute and file any such applications and to do all other lawfully permitted acts to further the application for, prosecution, issuance, maintenance or transfer of letters patent, copyright or other registrations thereon with the same legal force and effect as if originally executed by me.

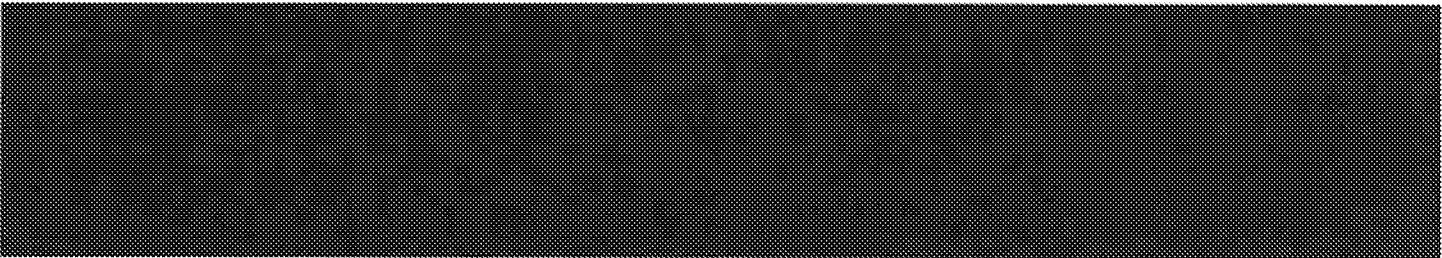






[Signature Page Follows]





The parties have executed this Agreement on the respective dates set forth below:

COMPANY:

FACEBOOK

By: _____

Name: Sean Murphy

Title: _____

Date: _____

Address: 1601 WILLOW ROAD
MENLO PARK, CA 94025

EMPLOYEE:

Lauren Boudry an Individual:

[Signature]
Signature

Date: March 7, 2012

