

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4865866

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STEVEN CORNELIS VERSTEEG	07/21/2016
NATHAN ALLIN HASTINGS	07/21/2016
XIEN YAO	07/21/2016
JOHN SINCLAIR BIRD	07/21/2016
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15920857
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SIGNATURE:	/ANTHONY B. WINGROVE/
DATE SIGNED:	03/14/2018
Total Attachments: 3	

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ASSIGNMENT

WHEREAS, we, STEVEN CORNELIS VERSTEEG, NATHAN ALLIN HASTINGS, XIEN YAO, and JOHN SINCLAIR BIRD ("ASSIGNORS"), are the original and joint inventors, and have invented certain new and useful improvements in subject matter disclosed and/or claimed in a patent application titled

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for which we are about to make, or have made, application for Letters Patent of the United States. ASSIGNORS hereby authorize legal representatives of Shook, Hardy & Bacon L.L.P. to insert here in parentheses the Application No. 15/254,474, and Filing Date 09/01/2016, when known; and

WHEREAS, CA, Inc., a corporation duly organized under the laws of the State of Delaware, and having its principal place of business at 520 Madison Avenue, 22nd Floor, New York, NY 10022-4327 ("ASSIGNEE"), is desirous of acquiring an interest in, to and under said invention, said application and any and all Letters Patent which may be granted for or upon said invention in the United States of America and all countries foreign thereto;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto ASSIGNEE, the full and exclusive right, title and interest, throughout the world, in, to and under said invention as fully set forth and described in the specification prepared and executed by us herewith preparatory to obtaining Letters Patent of the United States therefor; in, to and under said application;

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in, to and under any and all refilings, divisions and continuations of said application; in, to and under any and all Letters Patent of the United States of America which may issue from said application, refilings, divisions and continuations; in, to and under any and all reissues of said Letters Patent of the United States of America; in, to and under any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America; in, to and under any and all refilings, divisions and continuations of said foreign-filed applications; in, to and under any and all Letters Patent of countries foreign to the United States of America, which may issue from the said foreign-filed applications, refilings, divisions and continuations; and in, to and under any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America, the same to be held and enjoyed by said ASSIGNEE for its own use and behoof, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents to issue the said Letters Patent in accordance with this assignment.

EXECUTED this 21st day of July, 2016.



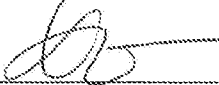
STEVEN CORNELIS VERSTEEG

EXECUTED this 21st day of July, 2016.



NATHAN ALLIN HASTINGS

EXECUTED this 21 day of July, 2016.



XIEN YAO

EXECUTED this 21 day of July, 2016.



JOHN SINCLAIR BIRD