

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ZHAO ZHAO	02/21/2018
WEI SHEN	02/21/2018
CHENXI LIU	02/22/2018
RECEIVING PARTY DATA	
Name:	WAL-MART STORES, INC.
Street Address:	702 SW 8TH STREET
City:	BENTONVILLE
State/Country:	ARKANSAS
Postal Code:	72716
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15883902
CORRESPONDENCE DATA	
Fax Number:	(602)364-7070
<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:	602-364-7000
Email:	julie.eslick@bryancave.com
Correspondent Name:	BRYAN CAVE LLP
Address Line 1:	TWO N CENTRAL AVENUE, SUITE 2100
Address Line 2:	JULIE A. ESLICK
Address Line 4:	PHOENIX, ARIZONA 85004
ATTORNEY DOCKET NUMBER:	WMT-17-445-US/2388212
NAME OF SUBMITTER:	JULIE A. ESLICK
SIGNATURE:	/Julie A. Eslick/
DATE SIGNED:	02/28/2018
Total Attachments: 4	
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ASSIGNMENT

In consideration of my agreement with Wal-Mart Stores, Inc., and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, Zhao Zhao, an individual residing in Sunnyvale, California, and I, Wei Shen, an individual residing in Danville, California, and I, Chenxi Liu, an individual residing in Santa Clara, California (collectively referred to herein as the "ASSIGNOR"), do hereby irrevocably assign, transfer, set over, convey, and deliver and will irrevocably assign, transfer, set over, convey, and deliver, or to the extent already irrevocably assigned, transferred, set over, conveyed, and delivered, do hereby confirm such irrevocable assignment, transfer, setting over, conveyance, and delivery to Wal-Mart Stores, Inc., a Delaware corporation, having a principal place of business located at 702 S.W. 8th Street, Bentonville, Arkansas 72716, its successors and assigns (collectively referred to herein as "ASSIGNEE"), all of my right, title, and interest in, to, and under any and all subject matter disclosed and/or claimed in the application(s) for patent, titled:

**SYSTEMS AND METHODS FOR IDENTIFYING CANDIDATES
FOR ITEM SUBSTITUTION**

filed in the U.S. Patent and Trademark Office on January 30, 2018, and assigned Application No. 15/883,902, a copy of which has been provided to me and I have reviewed; in, to and under the application(s) and any and all utility, design, provisional, non-provisional, continuation, continuation-in-part, continued prosecution, request-for-continued-examination, and divisional applications thereof; in, to, and under, my exclusive right to make and prosecute any and all applications for patents, reissues, renewals, and extensions thereof; in, to, and under any and all patents and Convention and Treaty rights of all kinds, in the United States of America and all other countries throughout the world, for all such subject matter; in, to, and under any and all know-how and/or confidential, proprietary, and/or trade secret information relating to any such subject matter, applications, patents, and/or technology; in, to, and under the right to sue for present, past, and future infringement or misappropriation relating to any such subject matter, applications, patents, and/or technology; in, to, and under the right to enforce any rights and file any causes of action, in law and/or equity, relating to any such subject matter, applications, patents, and/or technology; and in, to, and under the right to all income, royalties, fees, damages, and payments now or hereafter due or payable in respect to any such subject matter, applications, patents, and/or technology. The right, title, and interest is to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and exclusively as it would have been held and enjoyed by ASSIGNOR had this assignment not been made. I request the applicable official having authority to issue patents and/or corresponding rights to issue same on the subject matter of the invention(s) to ASSIGNEE, its successors and assigns, and, if called upon by ASSIGNEE, its successors, assigns, or legal representatives, I agree to promptly sign any and all documents necessary to secure any and all such patents and/or rights and for issuance of same to ASSIGNEE or its successors and assigns.

I covenant with ASSIGNEE, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

I grant to ASSIGNEE, its successors, assigns, and legal representatives the power to insert on this Assignment any further identification, including the application numbers and filing dates, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office, and/or any other patent office in any other country throughout the world, for recordation of this document.

I confirm that I have not made any agreement in conflict with this Assignment. I further agree that I will provide information within my knowledge or belief, and do any and all other relevant things that ASSIGNEE, its successors, assigns, or legal representatives deem necessary or desirable and request of me in connection with obtaining and/or maintaining any such patents and/or rights; in connection with proceeding, controversy, and/or litigation pertaining to any such patents and/or rights; in order to perfect and/or enforce the ownership by ASSIGNEE, its successors and assigns, of the right, title, and interest conveyed by this Assignment; and/or in connection with this Assignment, without payment of consideration to me beyond that called for in my written agreement with ASSIGNEE on the understanding, however, that ASSIGNEE will bear all reasonable expenses actually incurred for or in connection with such matters. This Assignment and the obligations assumed by me shall be binding on my heirs and personal representatives.

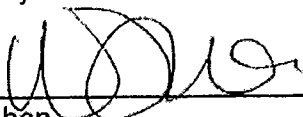
I confirm that I am a true inventor of the subject matter described in the patent application(s) identified above, and that there are no other individuals who are true inventors of the subject matter described in the patent applications identified above who are not listed as ASSIGNOR on this document.

Date: 02/21/2018



Zhao Zhao

Date: Feb 21, 2018



Wei Shen

Date: 02/22/2018

/Chenxi Liu/

Chenxi Liu