#### 505783172 11/20/2019

# PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5829999

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
LUYI MA	11/14/2019
HYUN DUK CHO	11/14/2019
SUSHANT KUMAR	11/18/2019
KANNAN ACHAN	11/13/2019

### **RECEIVING PARTY DATA**

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Internal Address:	(MS 0520)	
City:	BENTONVILLE	
State/Country:	ARKANSAS	
Postal Code:	72716-0520	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16689351	

#### CORRESPONDENCE DATA

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NAME OF SUBMITTER:	MANITA RAWAT
SIGNATURE:	/Manita Rawat/
DATE SIGNED:	11/20/2019

### **Total Attachments: 5**

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**PATENT** REEL: 051063 FRAME: 0129 505783172

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> PATENT REEL: 051063 FRAME: 0130

#### COMBINED ASSIGNMENT-DECLARATION

WHEREAS, Luyi MA of Sunnyvale, CA, Hyun Duk CHO of San Francisco, CA, Sushant KUMAR of Sunnyvale, CA, and Kannan ACHAN of Saratoga, CA, are the inventors of an invention entitled METHODS AND APPARATUS FOR AUTOMATICALLY PROVIDING ITEM ADVERTISEMENT RECOMMENDATIONS that is the subject matter of: (check all that apply)

	a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office
	by Application No.
$\boxtimes$	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by
	Application No. 16/689,351 filed on November 20, 2019 and/or executed on even date
	herewith: and
$\boxtimes$	an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is
	identifiable in the United States Receiving Office by Application Nofiled on
	; and/or executed on even date herewith:

WHEREAS, Walmart Apollo, LLC, a corporation of and existing under the laws of the State of Arkansas and the United States of America, and having a principal place of business at 702 S.W. 8th Street (MS 0520), Bentonville, Arkansas, 72716-0520 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge 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. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

# COMBINED ASSIGNMENT-DECLARATION

Inventor(s: Please Sign and Date Below:

Luvi MA (Inventor)
Luyi MA (Inventor)
11 / 14 / 2019 Date
Date /
Hyun Duk CHO (Inventor)
Date
St. A. A. C. L. D. D. A. M. D. L.
Sushant KUMAR (Inventor)
Date
Kannan ACHAN (Inventor)
Date

# COMBINED ASSIGNMENT-DECLARATION

Inventor(s: Please Sign and Date Below:

Luyi MA (Inventor)		
Date  Date  Pysin Duk CHO (Inventor)  1/14/2019  Date	04	
Sushant KUMAR (Inventor)  Date		
Kannan ACHAN (Inventor)  Date		

# COMBINED ASSIGNMENT-DECLARATION

Inventor(s: Please Sign and Date Below:
Luyi MA (inventor)
provides cooker decreases to
Date
÷
Hyun Duk CHO (Inventor)
Date
Sushart Kumar
Sushant KUMAR (Inventor)
11/18/2019
Date
Kannan ACHAN (Inventor)
,
Date

# COMBINED ASSIGNMENT-DECLARATION

Inventor(s: Please Sign and Date Below:

Luyi MA (Inventor)

Date

Sushant KUMAR (Inventor)

Date

Kannan ACHAN (Inventor)

Date

U.S. Assignment-Declaration – Wal-Mart Stores, Inc. - Confidential – -2-DM2\10655821.1

PATENT REEL: 051063 FRAME: 0135

**RECORDED: 11/20/2019**