

The present application is being examined under the pre-AIA first to invent provisions.

#### **DETAILED ACTION**

##### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/05/2017 has been entered.

##### ***Information Disclosure Statement***

The information disclosure statement (IDS) submitted on 12/05/2017. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

##### ***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance:

Claims 1-19 are allowance according to the same reason submit on 09/06/2017.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIET DOAN whose telephone number is (571)272-7863. The examiner can normally be reached on 9-5.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 15/469,440  
Art Unit: 2641

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KIET DOAN/  
Primary Examiner, Art Unit 2641

<b><i>Index of Claims</i></b> 	<b>Application/Control No.</b> 15469440	<b>Applicant(s)/Patent Under Reexamination</b> CHEUNG ET AL.
	<b>Examiner</b> KIET DOAN	<b>Art Unit</b> 2641

✓	<b>Rejected</b>
=	<b>Allowed</b>


-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE							
Final	Original	08/29/2017	12/13/2017						
1	1	=	=						
2			=						
3			=						
4			=						
5			=						
6			=						
7			=						
8			=						
9			=						
10			=						
11			=						
12			=						
13			=						
14			=						
15			=						
16			=						
17			=						
18			=						
19			=						

<b>Search Notes</b>  	<b>Application/Control No.</b>  15469440	<b>Applicant(s)/Patent Under Reexamination</b>  CHEUNG ET AL.
	<b>Examiner</b>  KIET DOAN	<b>Art Unit</b>  2641

CPC- SEARCHED		
Symbol	Date	Examiner
H04W76/02	8/29/2017	KD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
		8/29/2017	
455	466		KD
	456.1		KD
	414.1		KD
	557		KD
	426.1		KD
	435.1		KD
	424		KD
	455		KD
	423		KD
	39		KD
	417		KD
379	88.04		KD
	268		KD
	88.25		KD
	210.01		KD
340	7.22		KD
	7.42		KD
		12/13/2017	
	update search		KD

\* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

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