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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/590,423	08/21/2012	Aleksandar Modrag Tasic	121973	9482
23696 7590 12/26/2014 QUALCOMM INCORPORATED			EXAMINER	
5775 MOREHOUSE DR. SAN DIEGO, CA 92121			TRAN, KHANH C	
			ART UNIT	PAPER NUMBER
			2631	
			NOTIFICATION DATE	DELIVERY MODE
			12/26/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No. 13/590,423	Applicant(s TASIC ET A	Applicant(s) TASIC ET AL.	
Office Action Summary	Examiner KHANH C. TRAN	Art Unit 2631	AIA (First Inventor to Fil Status No	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	ith the corresponden	ce address	
 A SHORTENED STATUTORY PERIOD FOR REPL THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	136(a). In no event, however, may a t will apply and will expire SIX (6) MOI te, cause the application to become A	reply be timely filed NTHS from the mailing date o BANDONED (35 U.S.C. § 13	of this communication. 3).	
Status				
 Responsive to communication(s) filed on <u>10/3</u> A declaration(s)/affidavit(s) under 37 CFR 1. 				
	s action is non-final.	<u> </u>		
3) An election was made by the applicant in res	ponse to a restriction requi		ng the interview on	
 the restriction requirement and election 4) Since this application is in condition for allowation 			to the morite is	
closed in accordance with the practice under	•	•		
	$rac{1}{2}$., ,, , , ,, ∪, ∪, ∪, ∠, ∪, ,		
Disposition of Claims * $\sum \sum (1, 2) \sum$	2			
5) Claim(s) <u>1-20</u> is/are pending in the application 5a) Of the above claim(s) is/are withdra				
6) Claim(s) is/are allowed.				
7) Claim(s) <u>1,11,12,14,17 and 19 is/are</u> rejected	l			
8) Claim(s) <u>2-10,13,15,16,18 and 20</u> is/are object				
9) Claim(s) are subject to restriction and/				
* If any claims have been determined <u>allowable</u> , you may be		ent Prosecution High	way program at a	
participating intellectual property office for the corresponding	-	-	7 1 1 5	
http://www.uspto.gov/patents/init_events/pph/index.jsp or sen	d an inquiry to <u>PPHfeedback</u>	@uspto.gov.		
Application Papers				
10) The specification is objected to by the Examin	er			
11) The drawing(s) filed on is/are: a) ac		by the Examiner		
Applicant may not request that any objection to the	• • •	•	(a).	
Replacement drawing sheet(s) including the correct				
		(-,]		
Priority under 35 U.S.C. § 119	n priority under OF LLO O	(110(a) (d) at (f)		
12) Acknowledgment is made of a claim for foreig Certified copies:	in priority under 35 U.S.C.	§ 119(a)-(u) or (i).		
a) All b) Some** c) None of the:				
1. Certified copies of the priority docume	nte have been received			
2. Certified copies of the priority docume		Application No		
3. Copies of the certified copies of the pr		••		
application from the International Burea			lional etage	
** See the attached detailed Office action for a list of the certi				
Attachment(s)				
1) 🗌 Notice of References Cited (PTO-892)	3) 🔲 Interview	Summary (PTO-413)		
2) X Information Disclosure Statement(s) (PTO/SB/08a and/or PTO	Demor No.	s)/Mail Date		
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DETAILED ACTION

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

2. The Amendment filed on 10/30/2014 has been entered. Claims 1-20 are still pending in this Office action.

Response to Arguments

3. Applicant's arguments filed 10/30/2014 have been fully considered but they are not persuasive for the following reasons:

In response to Applicants' arguments on page 7 that Regarding independent claims

1 and 17, Applicant's independent claims 1 and 17 recite, *inter alia, "[a first amplifier stage configured to ... amplify/amplifying* ... with a first amplifier stage] ... when the first amplifier stage is enabled ... and [a second amplifier stage configured to ... amplify/amplifying ... with a second amplifier stage] ... when the second amplifier stage is enabled," which is not disclosed in Kaukovuori"."

<u>The Examiner's response is that</u> Kaukovuori FIG. 15 **embodiment** discloses that RFIC1 amplifier and RFIC2 amplifier both are inherently enabled {Emphasis Added} (see further in column 10 lines 22-46). Application/Control Number: 13/590,423 Art Unit: 2631

ΟCKF

In response to Applicants' arguments on page 8 that Kaukovuori discloses: one potential method of receiving non-contiguous carrier aggregation signals is to receive separate clusters of component carriers in separate receiver chains, each having a LO signal of its own. This is depicted in FIG. 15, where Cluster 1 and Cluster 2 are each handled by a separate respective receiver chain, as shown in FIG. 15. (Kaukovuori, col.10, lns. 23-28; emphasis added).

<u>The Examiner's response is that</u> Kaukovuori FIG. 15 **embodiment**, indeed, teaches method of receiving non-contiguous carrier aggregation signals is to receive separate clusters of component carriers in separate receiver chains, each having a LO signal of its own. FIG. 15 discloses a Radio Frequency Integrated Circuit (RFIC1) 1 including a first amplifier stage LNA, corresponding to the claimed first amplifier stage, to provide a first output RF signal (corresponding to the claimed first output RF signal, to a digital data path (corresponding to the claimed first load circuit). Furthermore, FIG. 15 discloses a Radio Frequency Integrated Circuit (RFIC2) 2 including a second amplifier stage LNA, corresponding to the claimed second output RF signal, to a different digital data path (corresponding to the claimed second output RF signal, to a different digital data path (corresponding to the claimed second output RF signal, to a different digital data path (corresponding to the claimed second load circuit). In column 10 lines 22-30, each separate received cluster (e.g. clusters 1 and 2) includes component carries that correspond to the claimed at least a first carrier of the multiple carrier and to the claimed at least a second carrier of the multiple carrier.

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In response to Applicants' arguments on page 8 that when the clusters have unequal bandwidths, the choice of bandwidth (BW) setups for both receiver chains may be performed in order to reconfigure the receiver such that receiver performance is optimal. Typically, the first branch may be configured in a first mode to have a first bandpass filter bandwidth to give first bandpass filtered inphase and quadrature components, and may be configured in a second mode to have a first lowpass filtered inphase and quadrature components, and may be configured in a second mode to have a first lowpass filtered inphase and quadrature components. In the first mode, a second branch may be configured, for example as shown in FIG. 24 within the dashed lines, and for example as shown in FIG. 10 or FIG. 11, to have a second bandpass filter bandwidth, different from the first bandpass filter bandwidth, to give second bandpass filtered inphase and quadrature components. In the second mode, the first branch may be used as a conventional DCR receiver, for example to receive single carrier or contiguous carrier signals, and the second branch, also referred to as an additional branch, may be not used, for example by being disconnected or turned off. (Kaukovuori, col.

13, Ins. 28-46; emphasis added).

<u>The Examiner's response is that</u>, as recited in last Office action, Kaukovuori FIG. 15 **embodiment** the two clusters are each received with different bandwidth filter (see column 10, lines 22-53). Kaukovuori foregoing disclosure teaches the claimed features "at least a first carrier of the multiple carrier and to the claimed at least a second carrier of the multiple carrier". Applicants' arguments using FIG. 10 FIG. 11 and FIG. 24 are irrelevant since those figures represent different embodiments, which the current rejection is not relied on, in Kaukovuori teachings.

In response to Applicants' arguments on page 9 that

35 U.S.C. § 103(a) Obviousness Rejections NOTE: The rejection of claim 19 in the Office Action appears to contain a typographical error. Specifically, the Office Action rejected claims 1, 11, 12,

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