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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/497,652	07/04/2009	Glenn J. Leedy	0907043DSA3L.US	6944
30232 7590 08/27/2014 USEFUL ARTS IP 08/27/2014 MICHAEL J. URE 10518 PHIL PLACE CUPERTINO, CA 95014			EXAMINER	
			JOY, JEREMY J	
			ART UNIT	PAPER NUMBER
,			2896	
			MAIL DATE	DELIVERY MODE
			08/27/2014	PAPER

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

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	Application No. 12/497,652	Applicant(s	
Office Action Summary	Examiner JEREMY JOY	Art Unit 2896	AIA (First Invento Status No
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	with the corresponder	nce address
A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION.	IS SET TO EXPIRE <u>3</u> 1	MONTHS FROM TH	E MAILING DA
 Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w 	ill apply and will expire SIX (6) MC	ONTHS from the mailing date	
 Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 			
Status			
1) Responsive to communication(s) filed on $07/22$			
A declaration(s)/affidavit(s) under 37 CFR 1.1		<u> </u>	
	action is non-final.		
3) An election was made by the applicant in respo			ing the interview
$\frac{1}{2}$; the restriction requirement and election			
4) Since this application is in condition for allowan closed in accordance with the practice under E			
Disposition of Claims*			
5) Claim(s) <u>1-12,17-22,26 and 35-99</u> is/are pendir			
5a) Of the above claim(s) is/are withdraw	n from consideration.		
6) Claim(s) is/are allowed.			
7)🛛 Claim(s) <u>1-12, 17-22, 26, and 35-99</u> is/are rejec	cted.		
8) Claim(s) is/are objected to.			
9) Claim(s) are subject to restriction and/or	election requirement.		
* If any claims have been determined <u>allowable</u> , you may be eli	gible to benefit from the Pa	atent Prosecution Hig	hway program at
participating intellectual property office for the corresponding ap			
http://www.uspto.gov/patents/init_events/pph/index.jsp or send	an inquiry to <u>PPHfeedback</u>	@uspto.gov.	
Application Papers			
10) The specification is objected to by the Examiner	,		
11) The drawing(s) filed on is/are: a) acce	epted or b) 🗌 objected to	o by the Examiner.	
Applicant may not request that any objection to the c	drawing(s) be held in abeya	ance. See 37 CFR 1.8	5(a).
Replacement drawing sheet(s) including the correcti	on is required if the drawin	ig(s) is objected to. See	e 37 CFR 1.121(d
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
Certified copies:		• • • • • • • • •	
a) All b) Some** c) None of the:			
1. Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document	s have been received in	Application No.	·
3. Copies of the certified copies of the prior	rity documents have bee	en received in this Na	ational Stage
application from the International Bureau			
** See the attached detailed Office action for a list of the certifie	d copies not received.		
Attachment(s)			
1) 🔀 Notice of References Cited (PTO-892)	3) 🔲 Interview	/ Summary (PTO-413)	
2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/S Paper No(s)/Mail Date	B/08b) 4) 🗌 Other:	o(s)/Mail Date 	
I.S. Patent and Trademark Office	Summary	Part of Paper N	No./Mail Date 2014082
PTOL-326 (Rev. 11-13) Office Action S	,		

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

Response to Arguments

Applicant's arguments filed 07/22/2014 have been fully considered but they are not persuasive.

(i) In regards to the applicant's arguments that the rejection is unjustifiably speculative, the examiner respectfully disagrees. In particular, just because the applicant alleges that the flexibility of *Leedy's* circuit layers are related to conformance, does not mean that modifying *Bertin* with the low stress dielectric of *Leedy* would not be desired or lead to an improved device. The applicant defines that the flexibility of their device is based on a thin wafer and the inclusion of a low stress dielectric layer. Therefore including a low stress dielectric layer within the device as taught by *Bertin* would lead to a flexible device. Furthermore, *Leedy* specifically states that the inclusion of low stress dielectrics in devices provide advantages to lower the cost and complexity of circuit fabrication and will enhance the performance of the circuit operation. Lastly, rather than using the oxidation process of forming the insulation layers which could perhaps damage the device through the thermal processes, forming the dielectric as taught by *Leedy* is shown to be an alternative method that would not require the thermal process and would lead to a device that will have enhanced performance characteristics as taught.

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(ii) In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). In particular, as shown the rejection does most definitely identify motivation to combine the references within the references themselves (see above). Furthermore, it is common knowledge that insulation layers and more specifically silicon oxide layers maybe be formed from other methods than oxidation. *Leedy* teaches and shows a valid alternative as well as clearly lays out benefits for using said low stress silicon oxide layer in a similar device.

(iii) In regards to the applicant's arguments that *Bertin* does not teach forming dielectric layer through oxidation the examiner respectfully disagrees. In particular, *Bertin* clearly teaches that the dielectric layers are formed by oxidation (Col. 4, lines 30-40) and the applicant even admitted as such in the arguments filed on 04/05/2013 (Page 28). In said arguments, the applicant admitted that the oxide is formed of thermally grown oxide which is known to be high stress and 5 to 10 times the level of stress than the oxides taught in the applicant's specification. Therefore, the examiner's rational that said low stress dielectrics as taught by *Leedy* would lead to a dielectric with

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much lower stress than the dielectric as taught by *Bertin* is accurate. And the examiner maintains that one would want a device with dielectrics of much lower stress for, at the very least, the reasons mentioned above.

(iv) In regards to the applicant's question on why a lower stress dielectric would be desirable in *Bertin*, the examiner responds by asking: why would one of ordinary skill and creativity in the art not look to known and available art to improve the device of *Bertin*? Since *Leedy* provided the motivation to include low stress dielectric as mentioned above why would one not look to said teachings of *Leedy* and modify the device of *Bertin* to improve it?

(v) In regards to the applicant's arguments that the CTE matching of *Leedy* is not required in *Bertin*, the examiner acknowledges that while this may be true it does not mean that it wouldn't be desirable. *Leedy* teaches that the CTE matching would help to minimize the extrinsic overall stress of the circuit layers. Since, *Bertin* teaches forming circuit layers why would one having ordinary skill in the art not modify *Bertin* with the teachings of *Leedy* to help minimize stress regardless of whether *Bertin* teaches freestanding circuit membranes.

(vi) In regards to the applicant's arguments that using the technique of *Leedy* rather than *Bertin* would not lower the cost or enhance the performance, the examiner respectfully disagrees. *Leedy* specifically states that using layers that are formed by the

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