## United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE **United States Patent and Trademark Office** 

Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

www.uspto.gov

A	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	17/449,729	10/01/2021	DodgieReigh M. Calpito	0210-152001	2647
		7590 08/30/202 HES BELLERMANN I	-	EXAMINER	
	Mark Bellerma		AKRAM, IMRAN		
	P.O. Box 1077 Middletown, MD 21769			ART UNIT	PAPER NUMBER
				1725	
				NOTIFICATION DATE	DELIVERY MODE
			,	08/30/2023	ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@brakehughes.com uspto@brakehughes.com



	Application No.	Applicant(s)					
Office Action Comments	17/449,729	Calpito et al.					
Office Action Summary	Examiner	Art Unit	AIA (FITF) Status				
	IMRAN AKRAM	1725	Yes				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondend	e address				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) <b>☑</b> Responsive to communication(s) filed on 31 July 2023.							
☐ A declaration(s)/affidavit(s) under <b>37 CFR 1.130(b)</b> was/were filed on							
2a) This action is <b>FINAL</b> . 2b)	This action is non-final.						
	3) An election was made by the applicant in response to a restriction requirement set forth during the interview						
on; the restriction requirement and election have been incorporated into this action.  4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
4) Since this application is in condition for allow closed in accordance with the practice under							
·	2.1. parto duagro, 1000 0.21 11	, 100 01011					
Disposition of Claims*							
5) Claim(s) 1-22 is/are pending in the app							
5a) Of the above claim(s) 14-22 is/are withdrawn from consideration.							
6) Claim(s) is/are allowed.							
7) Claim(s) 1-13 is/are rejected.							
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 eligible to benefit from the <b>Patent Prosecution Highway</b> program at a							
participating intellectual property office for the corresponding application. For more information, please see							
http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.							
Application Papers							
10) The specification is objected to by the Examiner.							
11) The drawing(s) filed on 21 October 2021 is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction	n is required if the drawing(s) is object	cted to. See 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 documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
• • • •	•	•					
application from the International Bureau (PCT Rule 17.2(a)).							
** See the attached detailed Office action for a list of the certified 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	B/08b) Paper No(s)/Mail D 4) Other:	ate					



Application/Control Number: 17/449,729 Page 2

Art Unit: 1725

## **DETAILED ACTION**

### Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

### Election/Restrictions

- 2. Applicant's election without traverse of Group I, claims 1-13 in the reply filed on 7/31/23 is acknowledged.
- 3. Claims 14-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method, there being no allowable generic or linking claim.

## Claim Rejections - 35 USC § 103

- 4. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis (i.e., changing from AIA to pre-AIA) for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.
- 5. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.



Application/Control Number: 17/449,729 Page 3

Art Unit: 1725

6. The factual inquiries for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.
- 8. Claims 1-13 are rejected under 35 U.S.C. 103 as being unpatentable over Kuboki (WO 2020/255876 A1) in view of Delepierre (US 2014/0178743 A1). Corresponding US Application 2022/0328925 A1 is used for translation and citation purposes of Kuboki.
- 9. Regarding claims 1 and 4, Kuboki discloses an apparatus comprising: a first electrical contact surface 21; a second electrical contact surface 30; a ribbon wire 50 extending along a longitudinal X-axis, the ribbon wire 50 including a first portion 54 coupled to the first surface 21 via a circular weld (paragraph 57), a second portion 51 coupled to the second surface 30 via soldering (paragraph 58), and a third portion 52



Application/Control Number: 17/449,729

Art Unit: 1725

extending between first portion **54** and second portion **51** (paragraph 59); wherein the width of the first portion **54** is greater than the width of the third portion **52** (see Figure 4). Kuboki discloses that the weld is circular (see Figure 4) and that the ribbon wire is metallic (paragraphs 54 & 55) but not that the connections are wedge bonds.

Delepierre—in an invention for a battery with welding conductive pads—discloses ultrasonic wedge bonding techniques for connections because they can be performed at ambient temperature (paragraph 48) which enables the formation of intermetallic compounds which have low electrical resistances (paragraph 49). It would have been obvious to one having ordinary skill in the art at the time of invention to utilize wedge bonding for the connections of Kuboki so that they can be performed at ambient temperature and possess intermetallics with low resistance as suggested by Delepierre.

Page 4

- 10. Regarding claim 2, Kuboki discloses that the second portion **51** and third portion **52** have the same width (see Figure 4).
- 11. Regarding claims 3 and 5, Kuboki discloses that modifying the connection of second portion **51** to have a wedge bond would produce the same size connection as first portion **54** as shown in Figure 4.
- 12. Regarding claims 6 and 7, Kuboki discloses that first electrical contact surface **21** is a busbar (paragraphs 44-46).
- 13. Regarding claim 8, Kuboki discloses that ribbon wire **50** is copper (paragraph 54).
- 14. Regarding claim 9, Kuboki discloses an apparatus comprising: an electrical contact surface **21**; and a ribbon wire **50**, the ribbon wire **50** including a first portion **54** coupled to the first surface **21** via a circular weld (paragraph 57). Kuboki discloses that



# DOCKET

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

# **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

