

Application No.	
	10202402555S

Applica 21/08		ing date <b>1</b>		(Earliest) Priority Date
Thi	is Coo	rah Dan	ort is issued under Section 20/E) of th	no Datanto Act
	is sea	тсп кер	ort is issued under Section 29(5) of th	ie Putents Act.
			accompanied by a copy of each prior se indicated.	art document cited in this report, except where
		THE WIS	e maicuted.	
1.		Certa	in claims were found <b>unsearchable</b> (s	see Box I)
2.	$\boxtimes$	Unity	of invention is lacking (see Box II)	
3.		The a	application discloses nucleotide and/	or amino acid sequence(s) (see Box III)
4.	Witl	n regard	to the <b>title</b> ,	
		$\boxtimes$	the text is approved as submitted b	by the applicant.
			the text has been established by th	is Office to read as follows:
5.	Witl	n regard	to the <b>abstract</b> ,	
		$\boxtimes$	the text is approved as submitted b	by the applicant.
			the text has been established by th	is Office as appears in Box IV.
6.	The	figure c	of the <b>drawings</b> to be published with t	the abstract is Fig. no. 8,
		$\boxtimes$	as suggested by the applicant.	
			because the applicant failed to sug	gest a figure.
			because this figure better characte	rizes the invention.
			because there are no drawings in the	ne application.
			none of the figures.	



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Во	x II (	Observations where unity of invention is lacking
1.		are multiple inventions in this application, as follows:
	cap	oup 1: Claims 1-12 relate to a battery sorting apparatus comprising an imaging device configured to oture an image of a battery to determine an actual orientation of the battery and a platform moveable ate to a base to align the battery along a predetermined orientation of a measurement device.
		oup 2: Claims 13-17 relate to a battery sorting method comprising obtaining a discharging rate of the terry and determining a grade of the battery based on the discharging rate.
	provide electrare di linked	de a contribution over the prior art relate to a battery sorting apparatus configured to measure ical characteristics of the battery to determine a grade of the battery. However, the common features sclosed in D1 (para. [0067]-[0079]). Thus, the inventions defined in the 2 groups of claims are not so as to form a single inventive concept involving one or more of the same or corresponding special ical features. Therefore, there is a lack of unity a posteriori.
2.	Conse	equently, this report has been established in respect of the following parts of the application:
		all parts
		the parts relating to claim(s) no. 1-12



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According to	IFICATION OF SUBJECT-MATTER Distributional Patent Classification (IPC) 4, G01R 31/385, H01M 10/48		
Minimum do	$_{ m S}$ <b>SEARCHED</b> ocumentation searched (classification system followed by $1{ m M}$ cion searched other than minimum documentation to the		he fields searched
FAMPAT: probe, pit	atabase consulted during the search (name of database a sorting, grading, battery, orientation, tilt, miss ch and other related terms		ischarge rate,
Category	Citation of document, with indication, where appropria	te, of the relevant passages	Relevant to claim no.
Y A	US 2013/0317639 A1 (CHOI, S. ET AL.) 28 November 2013 Para. [0049]-[0052], [0076]-[0087], [0102], fig. 1, 7		1-6, 9 7-8, 10-12
Y	CN 212808551 U (ALLEGRO TECH LTD) 26 March 2021 Para. [n0014], [n0017] of the machine translation, fig. 1-3		1-6, 9
А	CN 220509099 U (GUANGDONG JINLU NEW ENERGY CO LTD) 20 February 2024 Whole document of the machine translation		
	ocuments are listed in the continuation of box C.	☐ See supplemental box for details of the	scope of the search.
Special cate	gories of cited documents:		
	ent defining the general state of the art which is not red to be of particular relevance	T: later document published after the filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  X: document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an	
E: earlier a date	application or patent but published on or after the filing		
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O: document referring to an oral disclosure, use, exhibition or other means		<ul> <li>inventive step when the document is taken alone</li> <li>Y: document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the docume is combined with one or more other such documents; such combination being obvious to a person skilled in the art</li> </ul>	
Intellectu	al Property Office of Singapore	Date of actual completion of the search:	
1 Paya Le	bar Link #11-03	06/09/2024	
PLQ 1, Pa	ya Lebar Quarter	Authorized Officer	
Singapore	408533	Sim Cheow Hin (Dr)	
	erations@iposinternational.com		
	- ·	<u> </u>	



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	10202402555S

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim no
Α	CN 110539111 B (JIESHOU NANDU HUAYU POWER SOURCE CO LTD) 13 April 2021 Whole document of the machine translation	
Α	KR 10-2022-0133417 A (KAPJIN CO LTD) 5 October 2022 Whole document of the machine translation	