

Doc Code: **TR.PROV**

Document Description: Provisional Cover Sheet (SB16)

PTO/SB/16 (02-18)

Approved for use through 11/30/2020. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Provisional Application for Patent Cover Sheet					
This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)					
Inventor(s)					
Inventor 1					<input type="button" value="Remove"/>
Given Name	Middle Name	Family Name	City	State	Country j
Zachary		Lippa	Yucaipa	CA	US
Inventor 2					<input type="button" value="Remove"/>
Given Name	Middle Name	Family Name	City	State	Country j
Emma		Xu	Yucaipa	CA	US
All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>
Title of Invention		48 Volt 200 Amp Hour LIFEP04 Lithium Battery with touchscreen display and PC communication port.			
Attorney Docket Number (if applicable)		550034053			
Correspondence Address					
Direct all correspondence to (select one):					
<input type="radio"/> The address corresponding to Customer Number			<input checked="" type="radio"/> Firm or Individual Name		
Firm or Individual Name 1			Zachary Lippa		
Firm or Individual Name 2					
Mailing Address of Applicant:					
Address 1	5462 Christy Way				
Address 2					
City	Banning	State/Province	CA		
Postal Code	92220	Country j	US		
Phone	9092725080				

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.
<input checked="" type="radio"/> No.
<input type="radio"/> Yes, the invention was made by an agency of the United States Government. The U.S. Government agency name is:
<input type="radio"/> Yes, the invention was under a contract with an agency of the United States Government. The name of the U.S. Government agency and Government contract number are:

**CERTIFICATION OF MICRO ENTITY STATUS
(GROSS INCOME BASIS)**

Application Number or Control Number (if applicable):	Patent Number (if applicable):
First Named Inventor: Zachary Lippa	Title of Invention: 48 Volt 200 Amp Hour LIFEPO4 Lithium Battery with touchscreen display and PC communication port.

The applicant hereby certifies the following—

- (1) **SMALL ENTITY REQUIREMENT** - The applicant qualifies as a small entity as defined in 37 CFR 1.27.
- (2) **APPLICATION FILING LIMIT** - Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the applicant has assigned all ownership rights or is obligated to assign all ownership rights as a result of the applicant's previous employment.
- (3) **GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS** - Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the "Maximum Qualifying Gross Income" reported on the USPTO website at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.
- (4) **GROSS INCOME LIMIT ON PARTIES WITH AN "OWNERSHIP INTEREST"** - Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" reported on the USPTO website at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.

SIGNATURE by a party set forth in 37 CFR 1.33(b)

Signature	/Zachary Lippa/		
Name	Zachary Lippa		
Date	8/17/2021	Telephone	9092725080
		Registration No.	
<input type="checkbox"/>	There is more than one inventor and I am one of the inventors who are jointly identified as the applicant. Additional certification form(s) signed by the other joint inventor(s) are included with this form.		

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Entity Status

Applicant asserts small entity status under 37 CFR 1.27 or applicant certifies micro entity status under 37 CFR 1.29

☐ Applicant asserts small entity status under 37 CFR 1.27

☒ Applicant certifies micro entity status under 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.

☐ No

Warning

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Zachary Lippa/			Date (YYYY-MM-DD)	2021-08-17
First Name	Zachary	Last Name	Lippa	Registration Number (If appropriate)	

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **This form can only be used when in conjunction with EFS-Web. If this form is mailed to the USPTO, it may cause delays in handling the provisional application.**

PROVISIONAL APPLICATION FOR PATENT

INVENTION TITLE

48 Volt 200 Amp Hour LIFEP04 Lithium Battery with touchscreen display and PC communication port.

BACKGROUND OF THE INVENTION

Problem Solved: Energy Management

Other batteries in the field do not have PC communication port or touchscreen display to allow complete access to the battery's components ensuring a long and maintenance free life of the battery.

Our 48 Volt 200 Amp Hour battery has a unique PC communication port and touchscreen display which allows proper monitoring, balancing and repair when and if needed.

DETAILED DESCRIPTION OF THE INVENTION

As stated above, energy Management The invention claimed here solves this problem.

our 48 Volt 200 Amp Hour LIFEP04 Lithium Battery offers a unique solution for energy storage applications that offers complete control of the internal cells and components via PC communication port and touch screen display

The claimed invention differs from what currently exists. Our 48 Volt 200 Amp Hour battery is superior to other battery technologies because it offers a longer life span. Our proprietary BMS Design, PC communication port and touchscreen display are not used on any other battery brand or type, and allows for complete access to the battery's internal components ensuring a long and maintenance free life span for the battery,

This invention is an improvement on what currently exists. Our 48 Volt 200 Amp Hour battery is superior to other battery technologies because it offers a longer life span. Our proprietary BMS Design, PC communication port and touchscreen display are not used on any other battery brand or type, and allows for complete access to the battery's internal components ensuring a long and maintenance free life span for the battery,

Other batteries in the field are lacking the PC Communication port and touchscreen display which disallows proper monitoring, balancing and repair when needed.

Our 48 Volt 200 Amp Hour battery has a unique PC communication port and touchscreen display which allows proper monitoring, balancing and repair when and if needed.

The Version of The Invention Discussed Here Includes:

1. 3.5
2. 7:
3. RS485 Communication Port
4. Programmable Battery Management System / On Board Computer

Relationship Between The Components:

PC Communication port and touchscreen display which disallows proper monitoring, balancing and repair when needed.

How The Invention Works:

PC Communication port and touchscreen display work in conjunction with the proprietary on-board computer (Battery Management System) which allows proper monitoring, balancing and repair when needed via a proprietary computer program

How To Make The Invention:

The only way to make this invention would be via our manufacturing partner, no other brand or manufacturer currently uses our build list, bill of materials or design. Our batter is completely unique in look and function and can only be manufactured by our OEM partner.

If someone were to maliciously copy our design, in theory they could remove the touchscreen panel, so it would LOOK different, then simply use the Battery's communication port to access the battery's computer program (Battery Management System)

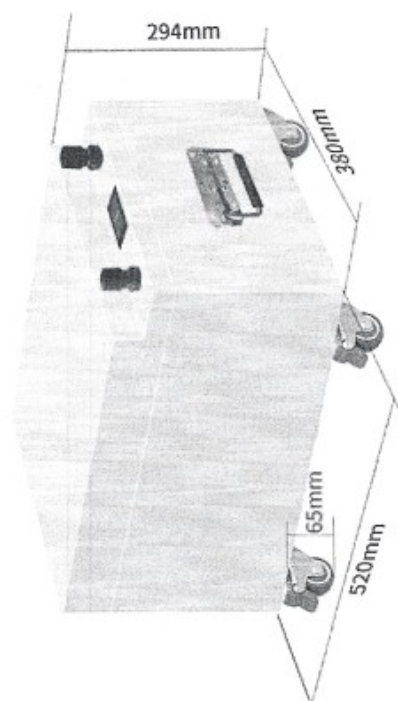
How To Use The Invention:

Anyone who needs battery power can use our battery, this model is particularly popular in solar storage applications

Additionally: Anyone who uses a battery, could use this battery..

ABSTRACT

48 Volt 200 Amp Hour LIFEP04 Lithium Battery with touchscreen display and PC communication port is disclosed. Our 48 Volt 200 Amp Hour battery has a unique PC communication port and touchscreen display which allows proper monitoring, balancing and repair when and if needed.



248mm
10"

450mm
17"

500mm
20"

