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Attorney Docket No. **144583**

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1. A. Name of conveying parties:

[1] Hirokazu KAWAI
[2] Yuichi IBI
[3] Kunio KANAMARU

B. Additional name(s) of conveying party(ies) attached?
 Yes No

2. A. Name and address of receiving parties:

[1] TOYOTA JIDOSHA KABUSHIKI
KAISHA
1, TOYOTA-CHO
TOYOTA-SHI
AICHI-KEN, 471-8571
JAPAN

3. A. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other Record to correct Assignee address on an assignment document previously recorded on 02/24/2010, reel 023988/frame 0231

B. Execution Date: All-November 6, 2009

[2] PANASONIC EV ENERGY CO.,
LTD.
20, OKASAKI
KOSAI-SHI
SHIZUOKA-KEN, 431-0422

B. Additional name(s) & address(es) attached?
 Yes No

4. A. Patent Application No. 12/675,068 B. Patent No.

Additional numbers attached? Yes No

C. Title of Application: APPARATUS FOR DETECTING A STATE OF SECONDARY BATTERY

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

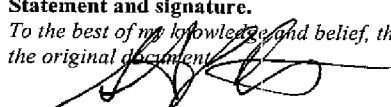
Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 320850
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Phone Number: 703-836-6400
Fax Number: 703-836-2787

6. Total number of applications and patents involved: 1

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9. **Statement and signature.**
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.


James A. Oliff, Registration No. 27,075
Stephen P. Catlin, Registration No. 36,101

Date: March 8, 2010

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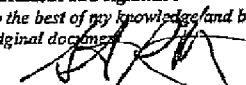
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Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		RECORDATION FORM COVER SHEET PATENTS ONLY	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
		Attorney Docket No. 144583	
Please record the attached document.			
Total number of pages including cover sheet, attachments, and document: 4			
1. A. Name of conveying parties: [1] Hirokazu KAWAI [2] Yuichi IBI [3] Kunio KANAMARU B. Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. A. Name and address of receiving parties: [1] TOYOTA JIDOSHA KABUSHIKI KAISHA 1, TOYOTA-CHO TOYOTA-SHI AICHI-KEN, 471-8571 JAPAN [2] PANASONIC EV ENERGY CO., LTD. 20, OKASAKI KOSAI-SHI SHIZUOKA-KEN, 430-0422 B. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. A. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ B. Execution Date: <u>All November 6, 2009</u>			
4. A. Patent Application No. <u>12/675,068</u>		B. Patent No.	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
C. Title of Application: <u>APPARATUS FOR DETECTING A STATE OF SECONDARY BATTERY</u>			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>James A. Oliff</u> Address: <u>OLIFF & BERRIDGE, PLC</u> <u>P.O. Box 320850</u> <u>Alexandria, VA 22320-4850</u> <u>Phone Number: 703-836-6400</u> <u>Fax Number: 703-836-2787</u>	6. Total number of applications and patents involved: 1		
	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00 .		
	8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.		
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  _____ James A. Oliff, Registration No. 27,075 Stephen P. Catlin, Registration No. 36,101			
Date: <u>February 24, 2010</u>			

CH \$40.00 150461 12675068

Assignment

譲渡証

Japanese Language Assignment

(1-8) Insert Name(s) of Inventor(s)

発明者の氏名を記入すること

(1) Hirokazu KAWAI

(2) Yuichi IBI

(3) Kunio KANAMARU

(4) _____

(5) _____

(6) _____

(7) _____

(8) _____

各々の署名人に対して支払われた総額 1 ドル (\$1.00)および他の適切な有価約因を考慮して、各々の署名人は

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee

譲受人氏名を記入すること

(9) (1) TOYOTA JIDOSHA KABUSHIKI KAISHA

(2) PANASONIC EV ENERGY CO., LTD.

(10) Insert Address of Assignee

譲受人住所を記入すること

(10) (1) 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan

(2) 20, Okasaki, Kosai-shi, Shizuoka-ken, 431-0422 Japan

(以降譲受人と称する)に対して、譲渡に同意し、ここに譲渡し、米国法第 35 章第 100 条に定義されるごとく、この発明および仮出願、非仮出願、分割出願、継続出願、国際出願、差替え出願、及び再発行出願、および前記発明に関するすべての特許証、延長証、再発行証、再審査証を含む特許のための全ての出願において、アメリカ合衆国のためのすべての権利、所有権、および利益を譲受人の継承人、後継者、被譲渡者、および法定代理人に移転および譲渡し、

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(11) Insert Identification such as Title, Case Number, or Foreign Application Number

名称、事件番号、もしくは外国出願番号のような確認事項を記入のこと

(11) Apparatus for Detecting a State of Secondary Battery

(Attorney Docket No. 144583)

弁護士整理番号

前記署名人が下記の日付でアメリカ合衆国において特許出願を履行するものであり、

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith

or

もしくは

- (12) **Insert Date of Signing of Application**
出願に署名する日付を記入のこと
- (12) on November 6, 2009
- (13) **Alternative Identification for filed applications**
提出された出願のための代案確認事項
- (13) **U.S. application Serial Number**
右記の米国出願整理番号で 12/675,068
filed
February 24, 2010
上記日付において提出されたものである。

1) 各々の署名人は前記発明のための出願関係および、継続出願、分割出願、再発行出願およびこの件に関しての発行する特許において、必要な全ての書類を履行することに同意し、譲受人が必要と思われる、このような出願および特許に関しての別途譲渡証を履行することにも同意する。

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3) 各々の署名人は、すべての用紙および書類を履行し、国際工業所有権保護協定の請求もしくは規定もしくは類似協定に関して必要ないかなる行為を施行することに同意する。

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6) 各々の署名人は、この書類の記録上、米国特許商標庁の規定に従うために、必要もしくは所望であればこの譲渡証にさらに確認事項を記入するための権利が オリフ・ベリッジ法律弁護士事務所(Oliff & Berridge)に付与されていることをここに承認する。

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of Oliff & Berridge the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

証人立ち会いのもとで、署名人覧の隣の日付をもってこの署名が履行される。

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date November 6, 2009 (1) Inventor Signature Hirokazu KAWAI (SEAL 日付 発明者署名 印)

Date November 6, 2009 (2) Inventor Signature Yuichi IBI (SEAL 日付 発明者署名 印)

Date November 6, 2009 (3) Inventor Signature Kunio KANAMARU (SEAL 日付 発明者署名 印)

Date (4) Inventor Signature (SEAL 日付 発明者署名 印)

Date (5) Inventor Signature (SEAL 日付 発明者署名 印)

Date (6) Inventor Signature (SEAL 日付 発明者署名 印)

Date (7) Inventor Signature (SEAL 日付 発明者署名 印)

Date (8) Inventor Signature (SEAL 日付 発明者署名 印)

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This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date 日付

Witness 証人

Date 日付

Witness 証人