

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAIJI MITSUYAMA	09/17/2018
ETSUZO SATO	09/07/2018
NORIYASU IWANE	09/07/2018
NAOTAKA UCHINO	09/07/2018
HIROKAZU NARUI	09/18/2018
AKIRA OONO	09/07/2018
TAKAYUKI MORIKAWA	09/27/2018

RECEIVING PARTY DATA

Name:	FURUKAWA ELECTRIC CO., LTD.
Street Address:	2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	1008322
Name:	FURUKAWA AUTOMOTIVE SYSTEMS INC.
Street Address:	1000, AMAGO, KOURA-CHO, INUKAMI-GUN
City:	SHIGA
State/Country:	JAPAN
Postal Code:	5220242

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16145007

CORRESPONDENCE DATA

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PATENT

Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER: MP160428US/FRKWP205WOUS

NAME OF SUBMITTER: THOMAS E. WATSON

SIGNATURE: /Thomas E. Watson/

DATE SIGNED: 09/27/2018

Total Attachments: 9

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PATENT ASSIGNMENT

Client Docket No. MP160428US
OC Docket No. FRKWP205WOUS

We, Taiji MITSUYAMA, Etsuzo SATO, Noriyasu IWANE, Naotaka UCHINO, Hirokazu NARUI, Akira OONO, and Takayuki MORIKAWA, ("ASSIGNORS"), have invented subject matter ("INVENTION") entitled "DEVICE FOR ESTIMATING DEGRADATION OF SECONDARY CELL, AND METHOD FOR ESTIMATING DEGRADATION OF SECONDARY CELL", disclosed and/or claimed in PCT patent application no. PCT/JP2017/012776, filed March 28, 2017, which INVENTION:

- will also be filed in the United States Patent & Trademark Office as a United States patent application ("US APPLICATION") without this executed PATENT ASSIGNMENT. ASSIGNORS hereby authorize, and request, ASSIGNEES' legal representatives of Amin, Turocy & Watson, LLP, 127 Public Square, 57th Floor, Key Tower, Cleveland, Ohio 44114, who are associated with customer number 23623, to insert here in parentheses (Application No. 16/145,007 filed 09/27/2018) this US APPLICATION's Application No. and filing date, when known;
- was filed in the United States Patent & Trademark Office on _____ and was given U.S. Patent Application Serial No. _____;
- is filed concurrently herewith;

FURUKAWA ELECTRIC CO., LTD., a Japanese corporation, having a principal place of business at 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan, on behalf of itself and its successors and assigns, and

FURUKAWA AUTOMOTIVE SYSTEMS INC., a Japanese corporation, having a principal place of business at 1000, Amago, Koura-cho, Inukami-gun, Shiga 5220242, Japan, on behalf of itself and its successors and assigns ("ASSIGNEES"),

are entitled to, and are desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNORS, the ASSIGNORS hereby sell, assign and transfer to the ASSIGNEES, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

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Client Docket No. MP160428US
OC Docket No. FRKWP205WOUS

_____ Inventor's Signature	_____ Date
<u>Hirokazu NARUI</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

<u>Akira OONO</u> Inventor's Signature	<u>201 Sep. 07th, 2018</u> Date
<u>Akira OONO</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
<u>Takayuki MORIKAWA</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

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_____ Inventor's Signature	_____ Date
Taiji MITSUYAMA Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
Etsuzo SATO Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
Noriyasu IWANE Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
Naotaka UCHINO Printed Name in English	_____ Printed Name in Native Language (if other than English)

 _____ Inventor's Signature	<u>09 / 18 / 2018</u> _____ Date
<u>Hirokazu NARUI</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
<u>Akira OONO</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

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<u>Takayuki MORIKAWA</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

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_____ Inventor's Signature	_____ Date
<u>Etsuzo SATO</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
<u>Noriyasu IWANE</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

_____ Inventor's Signature	_____ Date
<u>Naotaka UCHINO</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

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_____ Inventor's Signature	_____ Date
Akira OONO _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

<i>Takayuki Morikawa</i> _____ Inventor's Signature	<i>09/27/2018</i> _____ Date
Takayuki MORIKAWA _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)