U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office Form PTO-1595 (Rev. 06/04) RECORDATION FORM COVER SHEET PATENTS ONLY Document ID No.#700347882 To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the address(es) below.. Name and address of receiving party(ies): Name of conveying party(ies)/Execution Date(s): Naohiko ABE NAME: Mitsui Mining & Smelting Co., Ltd. Akiko SUGIOKA Akihiro KANNO 4. Hirotake NAKASHIMA ADDRESS: 11-1, Osaki 1-chome, Shinagawa-ku Execution Date(s): 10/12/07 Tokyo 1418584 Japan Additional name(s) of conveying party(ies) attached? attached? Yes X No Name of Conveyance: Merger x Assignment Security Agreement Change of Name Additional name(s) & addresses(es) attached? Government Interest Assignment  $\mathbf{x}$ Yes No Executive Order 9424, Confirmatory License ☐ Other N Application number(s) or patent number(s): This document is being filed together with a new application A. Patent Application No.(s) Patent No.(s) 11/912,716 Additional numbers attached? Yes X Total number of applications Name and address of party to whom and patents involved: correspondence concerning document should be mailed: Name: Total fee (37 CFR 3.41): . . . . \$ \_\_\_ 40 Address: Rothwell, Figg, Ernst & Manbeck 7. Suite 800 Street Address: 1425 K St., N.W. Enclosed Authorized to be charged to deposit account City: Washington, Zip: 20005 State: D.C. None required (government interest not affecting title) Telephone No.: 202/783-6040 Facsimile No.: 202/783-6031 Deposit account number: 02-2135 Email Address: Attorney Docket No. : 3209-150 Authorized User Name Robert B. Murray, Jr. DO NOT USE THIS SPACE Signature November 8, 2007 Total number of pages including cover sheet, attachments and documents: Robert B. Murray Name of Person Signing

> PATENT REEL: 020090 FRAME: 0532

Attorney Docket No. 3209-150

Rothwell, Figg, Ernst & Manbeck, P.C.

## ASSIGNMENT BY INVENTOR(S) OF PATENT APPLICATION FOR THE UNITED STATES OF AMERICA

IN CONSIDERATION of good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR(S)) by

Name: MITSUI MINING & SMELTING CO., LTD.

Address: 11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 1418584 Japan

(hereinafter ASSIGNEE), the receipt and adequacy of which is hereby acknowledged, ASSIGNOR(S) hereby sell(s), assign(s) and transfer(s) to ASSIGNEE all of his/her right, title and interest in, to and under the invention and application entitled: MATERIAL FOR FORMING CAPACITOR LAYER AND METHOD FOR MANUFACTURING THE MATERIAL FOR FORMING CAPACITOR LAYER for which application for Letters Patent of the United States ASSIGNOR(S) is/are the sole or a joint inventor and which application is identified herein and/or is further identified as follows

U.S. Serial No. or PCT Appln. No.: PCT/JP2006/308956, Filling Date: April 28, 2006 (Rothwell, Figg, Ernst & Manbeck is hereby authorized to insert the series code, serial or application number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted, including all rights to recover damages for any and all past infringement; and

ASSIGNOR(S) agree(s) to execute all papers necessary in connection with said application and any continuing, divisional, reissue or reexamination applications thereof and to execute separate assignments in connection with such applications as ASSIGNEE may deem necessary.

ASSIGNOR(S) agree(s) to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue, reexamination or extension thereof or Letters Patent, reissue patent or reexamination certificate issued thereon, and all rights connected therewith, and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

ASSIGNOR(S) covenant(s) that he/she has the full right to convey the entire interest herein assigned and has not executed, and will not execute, any agreement in conflict herewith.

ASSIGNOR(S) acknowledge(s) that ASSIGNEE may appoint any attorney or practitioner of ASSIGNEE's choice to prosecute any application or other legal proceeding involving said invention and ASSIGNOR(S) further acknowledge(s) that any attorney or practitioner so appointed by ASSIGNEE does not represent ASSIGNOR(S) and that such appointment by ASSIGNEE does not create any attorney-client relationship between ASSIGNOR(S) and any attorney or practitioner appointed by ASSIGNEE

IN WITNESS WHEREOF, the undersigned ASSIGNOR (S) has/ have affixed his/her signature below.

Signature: Nach leo Ahe	Date: October 12, 2017
Typed Name: Naohiko ABE	
Signature: <u>AKALOO Sugroka</u>	Date: October 12, 2007
Typed Name: Akiko SUGIOKA	
Signature: Ahihiro Kanno	Date: October 12,2007
Typed Name: Akihiro KANNO	
Signature: Kirotake nakash	ma Date: October 12. 2007
Typed Name: Hirotake NAKASHIMA	•

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WITNESSES: (optional)	117.44.5
	Date:
Signature:	
Typed Name:	Date:
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