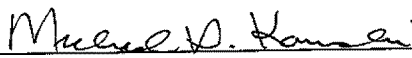


FORM PTO-1595 (modified) (Rev 6-93)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office													
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.																	
1. Name of conveying party(ies): Kinji HIRAI - January 28, 2011 Muneya FURUKAWA - January 30, 2011 Isamu AKIYAMA - January 31, 2011 Additional conveying party(ies) NO			2. Name and address of receiving party(ies): Advanced Technologies, Inc. 616-3, Aza Minakami, Jinba Gotenba-shi, Shizuoka 412-0047 Japan Additional name(s) & address(es) attached? NO														
3. Nature of conveyance: ASSIGNMENT Execution Date: (See Above)			4. Application number(s) or patent number(s): If this is being filed together with a new application, the execution date of the application is: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> A. Patent Application Number(s): 13/001,249 </div> <div style="width: 45%;"> B. Patent Number(s): </div> </div> Additional numbers attached? NO														
5. Name and address of party to whom correspondence concerning document should be mailed: Michael D. Kaminski FOLEY & LARDNER LLP 3000 K Street, N.W. Suite 600 Washington, D.C. 20007-5143			6. Total number of applications/patents involved: 1 7. Total fee (37 C.F.R. § 3.41): \$40.00 <div style="display: flex; align-items: center;"> <input checked="" type="checkbox"/> Check Enclosed <input type="checkbox"/> Authorized to be charged to credit card <input type="checkbox"/> Authorized to be charged to deposit account </div> 8. Payment Information <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. Credit Card</td> <td style="width: 30%;">Last 4 Numbers</td> <td style="width: 40%;">8625</td> </tr> <tr> <td></td> <td>Expiration Date</td> <td>11/30/2011</td> </tr> <tr> <td>b. Deposit account number</td> <td colspan="2">19-0741</td> </tr> <tr> <td>Authorized User Name</td> <td colspan="2">Michael D. Kaminski</td> </tr> </table>			a. Credit Card	Last 4 Numbers	8625		Expiration Date	11/30/2011	b. Deposit account number	19-0741		Authorized User Name	Michael D. Kaminski	
a. Credit Card	Last 4 Numbers	8625															
	Expiration Date	11/30/2011															
b. Deposit account number	19-0741																
Authorized User Name	Michael D. Kaminski																
DO NOT USE THIS SPACE																	
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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.</i>																	
Michael D. Kaminski					MAR 21 2011												
Name of person signing			Signature		Date												
Total number of pages including cover sheet, attachments, and document: 4																	

OP \$40.00 13001249

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

ADVANCED TECHNOLOGIES, INC. of 606-3, Aza Minakami, Jinba, Gotenba-shi, Shizuoka 412-0047
Japan

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

IRON ALLOY ARTICLE, IRONALLOY MEMBER, AND METHOD FOR PRODUCING THE IRON ALLOY
ARTICLE

as set forth in this United States Patent Application

Check
one

☐ executed concurrently herewith

☐ executed on _____

☒ Serial No. 13/001249 Filed December 23, 2010

and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation,

and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF INVENTOR

NAME: Kinji HIRAI

SIGNATURE: *Kinji Hira*

DATE: *January 28, 2011*

NAME AND SIGNATURE OF WITNESSES

NAME: _____

SIGNATURE: _____

DATE: _____

NAME: _____

SIGNATURE: _____

DATE: _____

NAME AND SIGNATURE OF INVENTOR

NAME: Muneya FURUKAWA

SIGNATURE: *Muneya Furukawa*

DATE: *January 30, 2011*

NAME AND SIGNATURE OF WITNESSES

NAME: _____

SIGNATURE: _____

DATE: _____

NAME: _____

SIGNATURE: _____

DATE: _____

NAME AND SIGNATURE OF INVENTOR

NAME: Isamu AKIYAMA SIGNATURE: Isamu Akiyama DATE: January 31, 2011

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.