PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yuta MIZOBE	01/09/2013
Hiroaki TAHIRA	01/09/2013
Ken YOSHINO	01/09/2013

RECEIVING PARTY DATA

Name:	NIPPON STEEL & SUMTIOMO METAL CORPORATION
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13819405

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Total Attachments: 1

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PATENT REEL: 029885 FRAME: 0111

Docket No: 12140-0030

ASSIGNMENT

This is an Assignment of the	following rights, title and interest:
	America rights, title and interest in the invention
Foreign rights, tit	e and interest in the invention
International App	ication No. PCT/JP2011/064709
Date of Filing: <u>Jl</u>	NE 27, 2011
☐ For which an app	ication for a U.S. Patent was executed on
☐ United States Pa	ent Application Serial No
Date of Filing:	
	L FOR INDUCTION HARDENING AND CRANKSHAFT JFACTURED USING THE SAME
Inventors (Assignors):	Yuta MIZOBE, Hiroaki TAHIRA, Ken YOSHINO
Assignee(s):	NIPPON STEEL & SUMITOMO METAL CORPORATION 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8071 JAPAN
	e-identified Inventors, have invented certain new and useful improvements in the escribed in the above-identified patent application(s) and/or patent(s) (hereinafter
And, whereas we desiridentified assignee;	to assign our above-identified rights, title and interest in the Invention to the above
Now, this indenture with acknowledged;	esseth, that for good and valuable consideration, the receipt whereof is hereby
applications(s) as identified abo and to any and all Letters Pater in and to any and all reissues a	and transfer our above-identified rights, title and interest in said Invention, said /e, including any divisions, continuations, and continuations-in-part thereof, and in t of the United States, which may be granted or have granted for said Invention, and reexaminations thereof, and in and to any and all priority rights, Convention rights accrue to us with respect to the filing of applications for patents or securing of o said Assignee.
	e and request the Commissioner of Patents and Trademarks to issue any United rissue for said Invention to said Assignee, as assignee of the whole right, title and
for filing divisions, continuations reissue or reissues of any Lette	sign and execute all necessary and lawful future documents, including applications and continuations-in-part of said application for patent, and/or, for obtaining any s Patent which may be granted for my aforesaid Invention, as the Assignee or its ne require and prepare at its own expense.
Yuta Miz Signature: Yuta MIZOBE	January 9, 2013
Signature: Yuta MIZOBE	Date
Hivoak; Talwy Signature: Hiroaki TAHIRA	D January 9, 2013
Signature: Hiroaki TAHIRA	Date
Xen Yohins Signature: Ken YOSHINO	January 9, 2013
Signature: Ken YOSHINO	Date

PATENT REEL: 029885 FRAME: 0112

RECORDED: 02/27/2013