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PATENT ASSIGNMENT

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CONVEYING PARTY DATA

Name	Execution Date
Toru Imori	02/23/2010
Yoshiyuki Hisumi	02/23/2010
Junichi Ito	02/23/2010
Tsukasa Torimoto	03/09/2010
Kenichi Okazaki	03/09/2010
Susumu Kuwabata	03/23/2010

RECEIVING PARTY DATA

Name:	Nippon Mining & Metals Co., Ltd.
Street Address:	10-1, Toranomon 2-chome
Internal Address:	Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	105-0001

Name:	Nagoya University	
Street Address:	1 Furo-cho, Chikusa-ku	
Internal Address:	Nagoya-shi	
City:	Aichi	
State/Country:	JAPAN	
Postal Code:	464-8601	

Name:	Osaka University	
Street Address:	1-1 Yamadaoka, Suita-shi	
City:	Osaka	
State/Country:	JAPAN	
Postal Code:	565-0871	

PROPERTY NUMBERS Total: 1

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Application Number:	12678509

CORRESPONDENCE DATA

Fax Number: (215)988-2757

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 215-988-2700

Email: leola.bryant@dbr.com

Correspondent Name: DRINKER BIDDLE & REATH ATTN: INTELLECTUA

Address Line 1: ONE LOGAN SQUARE, SUITE 2000

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103-6996

ATTORNEY DOCKET NUMBER: 35706-0311-00-US

NAME OF SUBMITTER: Leola P. Bryant

Total Attachments: 3

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A S S I G N M E N T

WHEREAS, we,

Toru Imori, a citizen of Japan, c/o Isohara Works, Nippon Mining &

Metals Co., Ltd., 187-4, Usuba, Hanakawa-cho,

Kitaibaraki-shi, Ibaraki 319-1535 Japan

Yoshiyuki Hisumi, a citizen of Japan, c/o Isohara Works, Nippon Mining &

Metals Co., Ltd., 187-4, Usuba, Hanakawa cho,

Kitaibaraki-shi, Ibaraki 319-1535 Japan

Junichi Ito, a citizen of Japan, c/o Isohara Works, Nippon Mining &

Metals Co., Ltd., 187-4, Usuba, Hanakawa-cho,

Kitaibaraki-shi, Ibaraki 319-1535 Japan

Tsukasa Torimoto, c/o Nagoya University, 1 Furo-cho, Chikusa-ku,

Nagoya shi, Aichi 464-8601, Japan

Kenichi Okazaki, c/o Nagoya University, 1 Furo-cho, Chikusa-ku,

Nagoya-shi, Aichi 464-8601, Japan

Susumu Kuwabata, c/o Osaka University, 1-1 Yamadaoka, Suita-shi, Osaka

565-0871, Japan

have invented certain new and useful improvements in

METHOD FOR SUPPORTING METAL NANOPARTICLES AND METAL NANOPARTICLES-CARRYING SUBSTRATE

for which we have on February 23, March 9 executed an application for United States Letters Patent under 35 U.S.C. 371 resulting from the International Application No. PCT/JP2008/066869 filed on September 18, 2008; and

WHEREAS, Nippon Mining & Metals Co., Ltd., a Japanese Corporation, located at 10·1, Toranomon 2·chome, Minato-ku, Tokyo, 105·0001, Japan, Nagoya University, a Japanese University, located at 1 Furo-cho, Chikusa-ku, Nagoya-shi, Aichi, 464·8601, Japan and Osaka University, a Japanese University, located at 1·1 Yamadaoka, Suita-shi, Osaka, 565-0871, Japan (hereinafter called the "Assignees"), are desirous of acquiring the entire right, title and interest in and to said application and the inventions and improvements therein disclosed so far as the United States of America is concerned.

NOW, THEREFORE, in good and valuable consideration paid to us by said Assignees, receipt whereof is hereby acknowledged, we do hereby assign, sell, transfer and set over unto said Assignees the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and any Letters Patent which may issue therefor in the United States and all divisions, re-issues, continuations, renewals and/or extensions thereof, said Assignees to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, re-issues, continuations, renewals and/or extensions thereof, respectively, a fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, and of the right to make, use or sell the inventions and improvements disclosed therein within the United States and that we have the full right to make this Assignment.

And for the consideration aforesaid, we agree that we will communicate to said Assignees or the representatives thereof any facts known to us respecting the inventions and improvements of the said United States application and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, re-issue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said Assignees or by counsel for said Assignees, to assist or enable said Assignees to obtain and enforce full benefits from the rights and interest herein assigned. This Assignment shall be binding upon our heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignees.

	Execute	d at <u>Ibaraki</u> ,	
this	23th	day of February, 2010	

	Executed at <u>Ibaraki</u> ,	
this	23th day of February 2010	yoshiyaki Idisumi
		Yoshiyuki Hisumi
	Executed at <u>Ibaraki</u> ,	
this	23th day of February, 2010	Junichi Mo Junichi Ito
	Executed at <u>Aichi</u> ,	
this	9 day of March , 2010	Tsubasa Tormoto
		Tsukasa Torimoto
	Executed at Aichi,	
this	9 day of <u>March</u> , <u>2010</u>	Kenishi Okazaki
		Kenichi Okazaki
	Executed at Osaka,	
this	23 day of March, 2010	Sum Karbete
		Susumu Kuwabata

RECORDED: 03/30/2010