

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hiroshi HARADA	09/20/2011
Tadaharu YOKOKAWA	09/20/2011
Yutaka KOIZUMI	09/20/2011
Toshiharu KOBAYASHI	09/20/2011
Masao SAKAMOTO	09/20/2011
Kyoko KAWAGISHI	09/20/2011
Ikuo OKADA	09/20/2011
Hidataka OGUMA	09/20/2011
Taiji TORIGOE	09/20/2011
Masaki TANEIKE	09/20/2011
Eisaku ITO	09/20/2011
Junichiro MASADA	09/20/2011
Keizo TSUKAGOSHI	09/20/2011
Hidemichi KOYABU	09/20/2011

RECEIVING PARTY DATA

Name:	NATIONAL INSTITUTE FOR MATERIALS SCIENCE
Street Address:	2-1, Sengen 1-chome, Tsukuba-shi
City:	Ibaraki
State/Country:	JAPAN

Name:	mitsubishi heavy industries, ltd.
Street Address:	16-5, Konan 2-chome, Minato-ku
City:	Tokyo
State/Country:	JAPAN

PROPERTY NUMBERS Total: 1

Property Type	Number

501676160

PATENT
REEL: 026990 FRAME: 0721

OP \$40.00 13144748

Application Number:

13144748

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: Wenderoth, Lind & Ponack, L.L.P.

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ATTORNEY DOCKET NUMBER:

2011-1051A

NAME OF SUBMITTER:

Andrea Pantleo

Total Attachments: 3

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert Name(s)
of Inventor(s)

Hiroshi HARADA
Tadaharu YOKOKAWA
Yutaka KOIZUMI
Toshiharu KOBAYASHI
Masao SAKAMOTO
Kyoko KAWAGISHI
Ikuo OKADA
Hidataka OGUMA
Taiji TORIGOE
Masaki TANEIKE
Eisaku ITO
Junichiro MASADA
Keizo TSUKAGOSHI
Hidemichi KOYABU

Insert Name(s)
of Assignee(s)

the undersigned hereby sell(s) and assign(s) to
of 1.) NATIONAL INSTITUTE FOR MATERIALS SCIENCE

Address

2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, JAPAN, and
2.) MITSUBISHI HEAVY INDUSTRIES, LTD.
16-5, Konan 2-chome, Minato-ku, Tokyo, JAPAN

Title of
Invention

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as
NI-BASED SINGLE CRYSTAL SUPERALLOY

Date of
Signing of
Application

for which an application for patent in the United States has been executed by the undersigned
on September 20, 2011

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 1030 15th Street, N.W., Suite 400 East, Washington, D.C. 20005-1503, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordal of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date September 20, 2011

Hiroshi HARADA
Hiroshi HARADA

Date September 20, 2011

Tadaharu YOKOKAWA
Tadaharu YOKOKAWA

Date September 20, 2011

Yutaka KOIZUMI
Yutaka KOIZUMI

Date September 20, 2011

Toshiharu KOBAYASHI
Toshiharu KOBAYASHI

Date September 20, 2011

Masao SAKAMOTO
Masao SAKAMOTO

Date September 20, 2011

Kyoko KAWAGISHI
Kyoko KAWAGISHI

Date September 20, 2011

Ikuo OKADA
Ikuo OKADA

Date September 20, 2011

Hidetaka OGUMA
Hidetaka OGUMA

Date September 20, 2011

Taiji TORIGOE
Taiji TORIGOE

Date September 20, 2011

Masaki TANEIKE
Masaki TANEIKE

Date September 20, 2011

Eisaku ITO
Eisaku ITO

Date September 20, 2011

Junichiro MASADA
Junichiro MASADA

Date September 20, 2011

Keizo TSUKAGOSHI
Keizo TSUKAGOSHI

Date September 20, 2011

Hidemichi Kooyabu
Hidemichi KOYABU

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness _____

Witness _____

ACKNOWLEDGMENT

} ss

This _____ day of _____, 20____, before me personally came the above-named _____ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

Official Signature

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No.: _____

Filing Date: July 15, 2011

Applicant Reference Number: 10-F-001PCT/US0

Attorney Docket No.: 2011_1051A