

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
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PROPERTY NUMBERS Total: 1																	
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CORRESPONDENCE DATA																	
Fax Number:	9497609502																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	

CH \$40.00 7743444

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ATTORNEY DOCKET NUMBER:

CREO1.001APC

NAME OF SUBMITTER:

Raymond D. Smith (Reg. No. 55,634)

Total Attachments: 9

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Patent No.: 7,743,444
Issue Date: June 29, 2010

PATENT
Client Code: CREO1.001APC
Page 1

ASSIGNMENT

WHEREAS:

Incorporated Administrative Agency Public Works Research Institute, with its principal place of business at 1-6, Minamihara Tsukuba-Shi, Ibaraki, Japan 305-8516;

Incorporated Foundation Public Works Research Center, with its principle place of business at 6-4, Taito 1-Chome, Taito-Ku, Tokyo, Japan 110-0016;

Kawada Industries, Inc. with its principal business at 3-11, Takinogawa 1-Chome, Kita-Ku, Tokyo, Japan 114-8562;

IHI Infrastructure Systems Co., Ltd., with its principal business at 3-Banchi, Ohama-Nishimachi, Sakai-Ku Sakai-City, Osaka, Japan 590-0977;

JFE Engineering Corporation, with its principal business at 1-2, Marunouchi 1-Chome, Chiyoda-Ku, Tokyo, Japan 100-0005;

Mitsui Engineering & Shipbuilding Co., Ltd., with its principal business at 6-4, Tsukiji 5-Chome, Chuo-Ku, Tokyo, Japan 104-8439; and

Mitsubishi Heavy Industries, Ltd., with its principal business at 16-5, Konan 2-Chome, Minato-Ku, Tokyo, Japan 108-8215;

(hereinafter "ASSIGNORS"), represent and warrant that they are partial owners of the entire right, title, and interest to certain new and useful improvements for which ASSIGNORS have filed the following United States issued Letters Patents in the United States (hereinafter "the Patent"):

<u>Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
7,743,444	June 29, 2010	CABLE STAYED SUSPENSION BRIDGE MAKING COMBINED USE OF ONE-BOX AND TWO-BOX GIRDERS

WHEREAS:

Honshu-Shikoku Bridge Expressway Company Limited, with its principal place of business at 4-1-22, Onoedoori, Chuo-Ku Koube-Shi, Hyogo, Japan 651-0088; and

Hitachi Zosen Corporation, with its principal business at 7-89, Nanko-Kita 1-Chome, Suminoe-Ku Osaka-Shi, Osaka, Japan 559-8559;

(hereinafter "ASSIGNEES") collectively desire to purchase the entire right, title, and interest in and to the inventions disclosed in the Patent;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) to ASSIGNORS, and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby further acknowledges that they have sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEES, their successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patent and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for

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said improvements or for the said Patent in any country or countries foreign to the United States; and ASSIGNORS hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent to ASSIGNEES, their successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNORS do hereby sell, assign, transfer, and convey to ASSIGNEES, their successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Patent before or after issuance;

ASSIGNORS hereby covenant and agree that they will communicate to ASSIGNEES, their successors, legal representatives, and assigns any facts known to ASSIGNORS respecting the Patent immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patent, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEES, their successors, legal representatives, and assigns to obtain and enforce the Patent in all countries.

Patent No.: 7,743,444
Issue Date: June 29, 2010

PATENT
Client Code: CREO1.001APC
Page 3

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29th day of October, 2012.

On behalf of:
**Incorporated Administrative Agency
Public Works Research Institute**

Signature: Kazuhiro Watanabe

Name Printed: Kazuhiro WATANABE

Title: Director of Construction
Technology Research Department

Witnessed by:

Minoru Kikuchi
Witness Signature

Minoru KIKUCHI

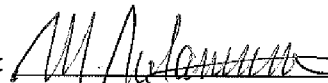
Witness Printed Name

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Issue Date: June 29, 2010

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Client Code: CREO1.001APC
Page 4

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29th day of October, 2012.

On behalf of:
**Incorporated Foundation Public Works
Research Center**

Signature: 

Name Printed: Makoto NAKAMURA

Title: President

Witnessed by:

Takayuki Goto
Witness Signature

Takayuki GOTO

Witness Printed Name

Patent No.: 7,743,444
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Page 5

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29th day of October, 2012.

On behalf of:
Kawada Industries, Inc.

Signature: *S. Echigo*

Name Printed: Shigeru ECHIGO

Title: Executive Officer

Witnessed by:

Witness Signature *Y. Sugimoto*

Yoji SUGIMOTO

Witness Printed Name _____

Patent No.: 7,743,444
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Page 6

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29 day of October, 2012.

On behalf of:
IHI Infrastructure Systems Co., Ltd.

Signature: Kazuo Ohata

Name Printed: Kazuo OHATA

Title: General Manager

Witnessed by:

Kazuhiko Kawano
Witness Signature

Kazuhiko KAWANO

Witness Printed Name

Patent No.: 7,743,444
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Page 7

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29th day of October, 2012

On behalf of:
JFE Engineering Corporation

Signature: Torataro Minegishi

Name Printed: Torataro MINEGISHI

Title: Manager

Witnessed by:

Shigeru Takano
Witness Signature

Shigeru TAKANO

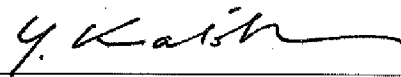
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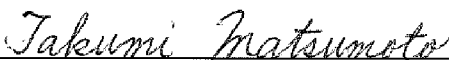
On behalf of:
**Mitsui Engineering & Shipbuilding Co.,
Ltd.**

Signature: 

Name Printed: Yasuhiko KATOH

Title: President

Witnessed by:


Witness Signature

Takumi MATSUMOTO
Witness Printed Name

Patent No.: 7,743,444
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Page 9

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29th day of October, 2012.

On behalf of:
Mitsubishi Heavy Industries, Ltd.

Signature: H. Ito

Name Printed: Hironichi ITO

Title: General Manager of
Intellectual Property Department

Witnessed by:

Masaaki Ikeda
Witness Signature

Masaaki IKEDA
Witness Printed Name

12606858/011912