

P28495.P03

FORM PTO-1595

09-20-2005

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

To the Honorable Director of I

ad original documents or copy thereof.

103084985

## 1. Name of Conveying party(ies):

Hiroshi WATANABE  
Takashi SATO  
Toshiharu MIYOGA,  
Koichi MITSUHATA  
Masahiro KANATANI  
Keiji UEDA,  
Seiji KIKUHARA  
Toshiharu NAGASHIMAShigeru FUJIMOTO  
Ryuichi ETOH

## 2. Name and address of receiving party(ies)

Name: Babcock-Hitachi Kabushiki Kaisha

Internal  
Address:

Street

Address: World Trade Center Bldg., 4-1, Hamamatsucho

2-chome, Minato-ku, Tokyo 105-6107 Japan

City: State: ZIP:

Additional names(s) and address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: August 10, 10, 17, 17, 11, 17, 11, 11, 11, &amp; 17, 2005

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: August 10, 10, 17, 17, 11, 17, 11, 11, 11, &amp; 17, 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Bruce H. Bernstein

Internal Address: P28495

Street Address: GREENBLUM &amp; BERNSTEIN, P.L.C.

1950 Roland Clarke Place

City: Reston State: VA ZIP: 20191

## 6. Total number of applications and patents involved: 1

7. Total Fee (37CFR 3.41) \$40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

19-0089

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

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.

Bruce H. Bernstein, Reg. No. 29,027  
Name of Person Signing

Leslie J. Paperner

Reg. No. 33,329

Signature

Date

Total number of pages including cover sheet, attachments and document: 8

Mail documents to be recorded with required cover sheet information to:

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04 FC:8021

40.00 DP

PATENT  
REEL: 016983 FRAME: 0055

## ASSIGNMENT

WHEREAS, **Hiroshi WATANABE**, a citizen of Japan, whose post office address is c/o Kure Research Laboratory of Babcock-Hitachi Kabushiki Kaisha, 3-36, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Takashi SATO**, a citizen of Japan, whose post office address is c/o Kure Research Laboratory of Babcock-Hitachi Kabushiki Kaisha, 3-36, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Toshiharu MYOGA**, a citizen of Japan, whose post office address is c/o Kure Division of Babcock-Hitachi Kabushiki Kaisha, 6-9, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Koichi MITSUHATA**, a citizen of Japan, whose post office address is c/o Kure Division of Babcock-Hitachi Kabushiki Kaisha, 6-9, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Masahiro KANATANI**, a citizen of Japan, whose post office address is c/o Kure Division of Babcock-Hitachi Kabushiki Kaisha, 6-9, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Keiji UEDA**, a citizen of Japan, whose post office address is c/o Kure Division of Babcock-Hitachi Kabushiki Kaisha, 6-9, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Seiji KIKUHARA**, a citizen of Japan, whose post office address is c/o Kure Division of Babcock-Hitachi Kabushiki Kaisha, 6-9, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, **Toshiharu NAGASHIMA**, a citizen of Japan, whose post office address is c/o Bab-Hitachi Industrial Co., Ltd., 5-3, Takara-machi, Kure-shi, Hiroshima 737-0029 Japan, **Shigeru FUJIMOTO**, a citizen of Japan, whose post office address is c/o Bab-Hitachi Industrial Co., Ltd., 5-3, Takara-machi, Kure-shi, Hiroshima 737-0029 Japan and **Ryuichi ETOH**, a citizen of Japan, whose post office address is c/o Kure Division of Babcock-Hitachi Kabushiki Kaisha, 6-9, Takara-machi, Kure-shi, Hiroshima 737-8508 Japan, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

### Non-consumable electrode welding torch and welding head with the torch

for which they have jointly executed, on the same date as this assignment, an application for Letters Patent of the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043 and William E. Lyddane, Reg. No. 41,568, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

AND WHEREAS, **Babcock-Hitachi Kabushiki Kaisha**, a corporation organized and existing under the laws of Japan, whose post-office address is World Trade Center Bldg., 4-1, Hamamatsucho 2-chome, Minato-ku, Tokyo 105-6107 Japan, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed on the date (s) indicated below.

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19, 2005  
(Date)

Hiroshi Watanabe  
August 10, 2005  
Hiroshi WATANABE Date

Second Witness:

K. Konishi  
(Name)

\_\_\_\_\_  
(Date)

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19, 2005  
(Date)

Takashi Sato Aug. 10, 2005  
Takashi SATO Date

Second Witness:

K. Konishi  
(Name)

\_\_\_\_\_  
(Date)

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19, 2005  
(Date)

T. Myoga Aug. 17 '05  
Toshiharu MYOGA Date

Second Witness:

K. Konishi  
(Name)

\_\_\_\_\_  
(Date)

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19. 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

(Date)

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19. 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

(Date)

Koichi MITSUHATA Aug. 17 '05  
Koichi MITSUHATA Date

M. Kanatani 11 Aug '05  
Masahiro KANATANI Date

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19. 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

\_\_\_\_\_  
(Date)

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19. 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

\_\_\_\_\_  
(Date)

Keiji Ueda 17th of August, 2005  
Keiji UEDA Date

Seiji Kikuhara  
August 11, 2005  
Seiji KIKUHARA Date

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19, 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

(Date)

First Witness:

Yukinori Okamoto  
(Name)

Aug. 19, 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

(Date)

T. Nagashima Aug. 11, '05  
Toshiharu NAGASHIMA Date

S. Fujimoto 11. Aug. '05  
Shigeru FUJIMOTO Date

First Witness:

Chikunori Ohashi  
(Name)

Aug. 19. 2005  
(Date)

Second Witness:

K. Konishi  
(Name)

(Date)

R. Etoh 17. AUG '05  
Ryuichi ETOH Date