

12/451910

12-09-2009

Form PTO-1595 (Rev. 03-09)  
OMB No. 0651-0027 (exp. 03/31/12)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

HEET

103583039

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

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

Ryohei Shigematsu (11/11/2009), Hiroshi  
Imamura (11/11/2009), and Takafumi Hirata  
(11/11/2009)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name☐ Security Agreement ☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other

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

Name: NHK Spring Co., Ltd.

Internal Address:

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Yokohama-shi, Kanagawa  
236-0004  
JAPAN

City:

State:

Country:

Zip:

Additional name(s) & address(es)  
attached? ☐ Yes ☒ No

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

☒

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

☐ Yes☒ No5. Name and address to whom correspondence  
concerning document should be mailed:Name: William L. Brooks  
EDWARDS ANGELL PALMER & DODGE  
LLP

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6. Total number of applications and  
patents involved:

1

## 7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$ 40.00

☒

Authorized to be charged to deposit account

☐

Enclosed

☐

None required (government interest not affecting title)

## 8. Payment Information

Deposit Account Number 04-1105

Authorized User Name William L. Brooks

## 9. Signature:

Signature

December 4, 2009

Date

William L. Brooks - 34,129

Name of Person Signing

Total number of pages including cover  
sheet, attachments, and documents:

2

12/08/2009 MJAMA1 00000028 041105 12451910  
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K1532RD6-US  
PNHIA-09186-US

IAPO8Rec'd PCT 04 DEC 2009

12/451910

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by  
(Insert Name(s) & Address(es) of ASSIGNEE(S))

NHK SPRING CO., LTD.

3-10, Fukuura Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

## OBJECT DETECTOR

relating to International Patent Application PCT/JP2008/060195 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on \_\_\_\_\_; (Insert date of execution of application, if not concurrent)

(b) filed on \_\_\_\_\_

Serial No. \_\_\_\_/\_\_\_\_;

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1) <u>Ryohei Shigematsu</u> (Signature)	Ryohei SHIGEMATSU (Type Name)	Nov. 11, 2009 (Date)
2) <u>Hiroshi Imamura</u> (Signature)	Hiroshi IMAMURA (Type Name)	Nov. 11, 2009 (Date)
3) <u>Takafumi Hirata</u> (Signature)	Takafumi HIRATA (Type Name)	Nov. 11, 2009 (Date)
4) _____ (Signature)	_____ (Type Name)	_____ (Date)
5) _____ (Signature)	_____ (Type Name)	_____ (Date)

PATENT

RECORDED: 12/04/2009

REEL: 023629 FRAME: 0158