

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Shigehiro TAKASAKA | 04/04/2007 |
| Yasuyuki OZEKI | 03/26/2007 |
| RECEIVING PARTY DATA | |
| Name: | JAPAN SCIENCE AND TECHNOLOGY AGENCY |
| Street Address: | 4-1-8, Honcho |
| City: | Kawaguchi-shi, Saitama |
| State/Country: | JAPAN |
| Postal Code: | 332-0012 |
| Name: | THE FURUKAWA ELECTRIC CO., LTD. |
| Street Address: | 2-3, Marunouchi 2-chome, Chiyoda-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 100-8322 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11577128 |
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PATENT
REEL: 021459 FRAME: 0563

NAME OF SUBMITTER:

Keena Capers

Total Attachments: 2

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Assignment of Application

WHEREAS, I (WE) Shigehiro TAKASAKA
Residence: c/o THE FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome,
Chiyoda-ku, Tokyo 100-8322 Japan

INSERT NAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORS.

Yasuyuki OZEKI
Residence: 6, Yawata-kaigandori, Ichihara-shi, Chiba 290-8555 Japan

_____, respectively,

INSERT TITLE
OF INVENTION:

have invented certain new and useful improvements in: _____

LOCK DETECTION APPARATUS AND OPTICAL PHASE-LOCKED LOOP SYSTEM

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on _____

(Application No. _____, filed _____), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE

WHEREAS, 1) JAPAN SCIENCE AND TECHNOLOGY AGENCY
2) THE FURUKAWA ELECTRIC CO., LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

- 1) 4-1-8, Honcho, Kawaguchi-shi, Saitama 332-0012 Japan
- 2) 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: April 4, 2007
~~February 10, 2006~~

Shigehiro Takasaka
(Signature of Inventor) Shigehiro TAKASAKA

Date: March 26, 2007

Yasuyuki Ozeki
(Signature of Inventor) Yasuyuki OZEKI

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

03/03