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ACTION FORM COVER SHEET

PATENTS ONLY

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):

Tsuyoshi NISHIOKA (6/28/2006), Toshio
HASEGAWA (6/28/2006), and Hirokazu
ISHIZUKA (6/28/2006)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

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State:

Country:

Zip:

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

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

NEW

B. Patent No.(s)

10/590970

Additional numbers attached? ☐ Yes ☒ No

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

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6. Total number of applications and patents involved:

1

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

☐ Authorized to be charged by credit card☐ Authorized to be charged to deposit account☒ Enclosed☐ None required (government interest not affecting title)

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Michael K. Mutter - 29,680

Name of Person Signing

August 29, 2006

Date

Total number of pages including cover
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2

FPM-11722

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Tsuyoshi NISHIOKA, Toshio HASEGAWA and Hirokazu ISHIZUKA hereby sells, assigns and transfers to

MITSUBISHI ELECTRIC CORPORATION

of 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled QUANTUM CRYPTOGRAPHIC COMMUNICATION APPARATUS which was executed by the undersigned on 6/28/06 or was filed on 8/29/06 and accorded Serial No. NEW (hereinafter called the Application);
- (ii) any and all inventions and improvements which are described in the Application;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent);
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

INVENTOR(S):

DATE

(Tsuyoshi NISHIOKA)	<u>Tsuyoshi Nishioka</u>	<u>June 28, 2006</u>
(Toshio HASEGAWA)	<u>Toshio Hasegawa</u>	<u>June 28, 2006</u>
(Hirokazu ISHIZUKA)	<u>Hirokazu Ishizuka</u>	<u>June 28, 2006</u>
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PATENT

RECORDED: 08/29/2006

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