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☒ No ☐ Yes

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Execution Date: 08/22/2005

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Street Address: 3-1, Otemachi 2-chomeCity: Chiyoda-ku, Tokyo State: _____ ZIP: 100-8116Country: JapanAdditional name(s) & address(es) attached? ☒ No ☐ Yes

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: 08/22/05

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ No ☐ Yes

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

Name: Blakely, Sokoloff, Taylor & Zafman LLP

Internal Address:

Street Address: 12400 Wilshire Boulevard
7th FloorCity: Los Angeles State: CA ZIP: 900256. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed
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Docket No. 96790P497

PATENT
 REEL: 017747 FRAME: 0357

ASSIGNMENT

Know all men by these presents

THAT WHEREAS.....,

we, Hiroki Nakajima, Takayuki Yamanaka,
Hideki Fukano, Yuichi Akage, Munehisa Tamura,
and Tadashi Saito, citizens of Japan and
engineers, all residing at c/o NTT Intellectual
Property Center, 9-11, Midri-cho 3-chome,
Musashino-shi, Tokyo 180-8585, Japan

have made an invention in certain improvements in

Optical Modulator and Optical Modulation Method

described in an application executed by us on August 22, 2005

and about to be filed in the United States Patent Office on

Serial Number ; and

WHEREAS,

NIPPON TELEGRAPH AND TELEPHONE CORPORATION

a corporation duly organized and existing under the laws of ~~the~~
~~State of~~ Japan and having a place of business at

~~Commonwealth of~~
3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116, Japan

for the benefit of itself, its successors and assigns, all inclusively hereinafter referred
to as the Assignee, is desirous of acquiring the entire right, title and interest in and
to the said invention, the said application, all inventions disclosed in said application,
and any and all Letters Patent of the United States and of all other countries which
may be granted for the said invention or inventions, or any of them;

Now, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other
good and valuable considerations to us paid by the said Assignee, the receipt
whereof is hereby acknowledged, we do hereby sell, assign and transfer to the
said Assignee the entire right, title and interest in and to the said invention, inven-
tions, and application, including all priority rights arising therefrom, all inventions
disclosed in said application, and any and all Letters Patent of the United States,
and of all other countries, together with the right to apply for such Letters Patent,
which may be granted for the said invention, inventions or any of them.

To HAVE, HOLD AND ENJOY the said inventions, the said application, and the said
Letters Patent, to said NIPPON TELEGRAPH AND TELEPHONE CORPORATION

its successors and assigns, to its and their own use and behoof to the full end of the
term or terms for which the said Letters Patent may be granted, as fully and entirely
as the same would have been held and enjoyed by ourselves had this assign-
ment and sale not been made.

AND we HEREBY authorize and request the Commissioner of Patents of
the United States and the appropriate officers of all foreign patent offices to issue any
and all Letters Patent which may be granted on the said application or applications
above referred to, or for the said inventions, or any of them, to the said Assignee in
accordance with the terms of this instrument.

AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to the said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we do hereby covenant for us and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF we have hereunto set our hands and seal this 22nd day of August, 2005 .

Hiroki Nakajima
Hiroki Nakajima

Takayuki Yamanaka
Takayuki Yamanaka

Hideki Fukano
Hideki Fukano

Yuichi Akage
Yuichi Akage

Munehisa Tamura
Munehisa Tamura

Tadashi Saitoh
Tadashi Saitoh

UNITED STATES OF AMERICA

Commonwealth of Massachusetts } ss.
County of

Then personally appeared the above-named _____, this _____ day of _____ 19____, to me personally known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be _____ own free act and deed, before me.

.....
Notary Public

Commonwealth of Massachusetts } ss.
County of

Then personally appeared the above-named _____, this _____ day of _____ 19____, to me personally known and known by me to be the person described in and who executed the foregoing instrument and acknowledged the same to be _____ own free act and deed, before me.

.....
Notary Public