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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Masaki MURAKATA
Naoki NODA
Shinji KURIKI

08/06/02

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

TOHOKU PIONEER CORPORATION

1105, Aza Nikko, Oaza Kunomoto, Tendo-shi, Yamagata, Japan

PIONEER VIDEO CORPORATION

2680, Nishihanawa, Tatomi-cho, Nakakoma-gun, Yamanashi-ken
409-3889, Japan

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: July 3, 2002

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

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: July 3, 2002

A. Patent Application No.(s)

10/212056

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):

\$40.00

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Darryl Mexie
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August 6, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 2

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

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Box Assignment

Washington, D.C. 20231

08/12/2002 LHMELLER 00000233 10212056

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PATENT
REEL: 013172 FRAME: 0426

ASSIGNMENT

Whereas, I/we Masaki MURAKATA of Yamagata, Japan,
Naoki NODA and Shinji KURIKI both of Yamanashi, Japan

hereinafter called assignor(s), have invented certain improvements in
DC-DC CONVERTER AND DRIVING METHOD FOR THE SAME
and executed an application for Letters Patent of the United States of America therefor on

July 3, 2002 ~~2001~~ and

Whereas, TOHOKU PIONEER CORPORATION of
1105, Aza Nikko, Oaza Kunomoto, Tendo-shi, Yamagata, Japan
PIONEER VIDEO CORPORATION of
2680, Nishihanawa, Tatomi-cho, Nakakoma-gun, Yamanashi-ken 409-3889, Japan
(assignee), desires to acquire the entire right, title and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority under
35 U.S.C. § 119, and I/we request the Director - U.S. Patent and Trademark Office to issue any
Letters Patent granted upon the invention set forth in the application to the assignee, its successors
and assigns; and I/we will execute without further consideration all papers deemed necessary by the
assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my/our attorneys SUGHRUE MION, PLLC of 2100
Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application
number _____, filed _____) the filing date and application
number of said application when known.

Date: July 3, 2002

s/ Masaki Murakata

Date: July 3, 2002

s/ NAOKI NODA

Date: July 3, 2002

s/ Shinji Kuriki

Date:

s/ _____

Date:

s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)