

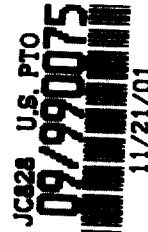


11/21/01

TO THE ASSISTANT COMMISSIONER FO.

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documents or copy thereof.



1. Name of conveying party(ies): (If multiple assignors, list numerically)

- 1. Shunsuke Shuto
- 2. Sadahiro Nakanishi
- 3. Shusaku Nakano
- 4. Takashi Kamijo
- 5. Amane Mochizuki

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

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

Name: NITTO DENKO CORPORATION
Address: 1-1-2, Shimohozumi, Ibaraki-shi, Osaka, 567-8680 Japan

Additional name(s) of receiving party(ies) attached?
() Yes (X) No

3. Nature of conveyance:

- (X) Assignment
- () Merger
- () Security Agreement
- () Change of Name
- () Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) All dated 11/14/01

4. Application number(s) or Patent number(s):

- (X) Application(s) filed herewith
Execution Date(s): All dated 11/14/01
- () Patent Application No.:
Filing Date:
- () Patent No.:
Issue Date:

Additional numbers attached? () Yes (X) No

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

Name: Daniel E. Altman
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20,995
Internal Address: Sixteenth Floor
Street Address: 620 Newport Center Drive
City: Newport Beach State: CA ZIP: 92660
Attorney's Docket No.: UNIU42.001AUS

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

- (X) Enclosed
- () Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Daniel E. Altman
Name of Person Signing

Daniel Altman
Signature

November 21, 2001
Date

34,115
Registration No.

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

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

11/28/2001 TDIAZI 00000080 09990057
01 FC:581 40.00 DP

U.S. Patent and Trademark Office
Attn: Assignment Division
Crystal Gateway-4
1213 Jefferson Davis Highway, Suite 320
Arlington, VA 22202

Application No.:

Filing Date:

Page 1

ASSIGNMENT

WHEREAS, We, Shunsuke SHUTO, a Japanese citizen, residing at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680 Japan, Sadahiro NAKANISHI, a Japanese citizen, residing at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680 Japan, Shusaku NAKANO, a Japanese citizen, residing at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680 Japan, Takashi KAMIJO, a Japanese citizen, residing at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680 Japan, and Amane MOCHIZUKI, a Japanese citizen, residing at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680 Japan, have invented certain new and useful improvements in a Method for Manufacturing Homeotropic Alignment

Liquid Crystal Film, Homeotropic Alignment Liquid Crystalline Composition and Homeotropic Alignment Liquid Crystal Film; for which I have executed an application for Letters Patent in the United States, even date herewith;

AND WHEREAS, Nitto Denko Corporation (hereinafter "ASSIGNEE"), a Japanese Corporation, with its principal place of business at 1-1-2, Shimohozumi, Ibaraki-shi, Osaka 567-8680 Japan, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

This 14th day of November, 2001

Shunsuke SHUTO
Shunsuke SHUTO

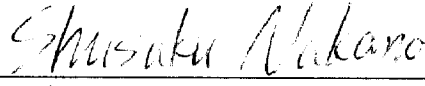
This 14th day of November, 2001

Sadahiro NAKANISHI
Sadahiro NAKANISHI

Application No.:
Filing Date:

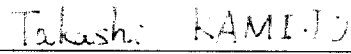
PATENT
Client Code:
Page 2

This 14th day of November, 2001



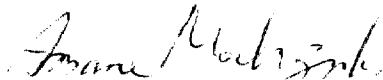
Shusaku NAKANO

This 14th day of November, 2001



Takashi KAMIJO

This 14th day of November, 2001



Amane MOCHIZUKI

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