PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| Masayoshi YABE | 03/29/2007 |
| Hideki SATO | 03/30/2007 |

RECEIVING PARTY DATA

| Name: | PIONEER CORPORATION |
|-----------------|--------------------------------|
| Street Address: | 4-1, Meguro 1-chome, Meguro-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 1538654 |

| Name: | MITSUBISHI CHEMICAL CORPORATION |
|-----------------|---------------------------------|
| Street Address: | 14-1, Shiba 4-chome, Minato-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 1080014 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11722760 |

CORRESPONDENCE DATA

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PATENT REEL: 019513 FRAME: 0582

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| ATTORNEY DOCKET NUMBER: | 310955US0XPCT |
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| NAME OF SUBMITTER: | Derrick Tyson |
| Total Attachments: 2 source=310955USAssignment#page1.tif source=310955USAssignment#page2.tif | |

PATENT REEL: 019513 FRAME: 0583

Page 1 of 2

Assignment of Application

| | Research Center, Inc., 1000 | , Kamoshida-cho, A | Aoba-ku, Yokohama-shi, Kanagawa | ı, Japan |
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| MATERIAL, AI | ND ORGANIC ELECTRO | LUMINESCEN, filed | T DEVICE June 25, 2007 | RANSPOR' |
| MATERIAL, Al (Application No. | ND ORGANIC ELECTRO 11/722,760 PIONEER CORPORATION | , filed of 4-1, Meguro 1- | T DEVICE June 25, 2007 chome, Meguro-ku, Tokyo 153-865 | RANSPOR |
| MATERIAL, Al (Application No. | ND ORGANIC ELECTRO 11/722,760 PIONEER CORPORATION | , filed of 4-1, Meguro 1- | T DEVICE June 25, 2007 | RANSPOR' |
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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: March 29, 2007 Masayoshu Yabe

Date: March 30, 2007 (Signature of Inventor) Masayoshi Yabe

(Signature of Inventor) Hideki Sato

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

12/04

RECORDED: 07/03/2007

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