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To the Director of the U.S.

Name of conveying party(ies): (1) Mie SHIMIZU (2) Koichi MINATO

- (3) Masaharu TAKAHASHI

Name and Address of receiving party(ies):

(1) TOPPAN PRINTING CO., LTD. 5-1, Taito 1-chome,

	Taito-ku, Tokyo 110-0016 Japan
	(2) DIC Corporation 35-58, Sakashita 3-chome, Itabashi-ku, Tokyo 174-8520 Japan
3.	Nature of conveyance: X Assignment (2 Assignments)
4.	Application number(s) or patent number(s): This document is being filed together with a new application.
	OR This document is being filed after filing of the application: (a) Patent Application No(s). 12/662,972, filed May 13, 2010; or (b) Patent No(s)., issued.
5.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1186.1086 Attention: David M. Pitcher 1201 New York Ave., N.W., 7th Floor Washington, D.C. 20005
6.	Total number of applications and patents involved:1
7.	Total fee (37 CFR 3.41) (\$ 40.00 per Patent or Application in Assignment) ☐ Enclosed ☐ Authorized to be charged to deposit account.
8.	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account)
	M. Pitcher, Reg. No. 25,908 of Person Signing Signature 08/02/2019 HT0N11 Total number of pages including cover sheet 40500 OP

Revised January, 2005

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In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

COLOR COMPOSITION FOR COLOR FILTER, COLOR FILTER USING THE COMPOSITION AND LIQUID CRYSTAL DISPLAY DEVICE

have sold and assigned and do hereby sell and assign to

- 1. TOPPAN PRINTING CO., LTD., a Japanese corporation, having a business address at 5-1, Taito 1-chome, Taito-ku, Tokyo 110-0016 Japan; and
- 2. DIC Corporation, a Japanese corporation, having a business address at 35-58, Sakashita 3-chome, Itabashi-ku, Tokyo 174-8520 Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one)	[X]	executed concurrently herewith		
		executed on Application No.	; , filed	

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Staas & Halsey LLP, Suite 700 1201 New York Avenue, N.W. Washington, D.C., 20005

PATENT REEL: 024778 FRAME: 0496

[1st Inventor] Residence Address: Tokyo, Japan Mailing Address: c/o TOPPAN PRINTING CO., LTD., Japan Citizenship: Japan	, 5-1, Taito 1-chome, Taito-ku, Tokyo 110-0016
Mie Shimizu	may 6. 2010 Date:
[2nd Inventor] Residence Address: Tokyo, Japan Mailing Address: c/o TOPPAN PRINTING CO., LTD., Japan Citizenship: Japan	5-1, Taito 1-chome, Taito-ku, Tokyo 110-0016
Koichi Minato Koichi Minato	May 6, 20/0 Date:
[3rd Inventor] Residence Address: Takaishi-shi, Japan Mailing Address: c/o Sakai Plant, DIC Corporation, 3, Japan Citizenship: Japan	

Date:

Masaharu Takahashi

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its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one)	[X]	executed concurrently herewith		
		executed on Application No.	; , filed	

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Staas & Halsey LLP, Suite 700 1201 New York Avenue, N.W. Washington, D.C., 20005

PATENT REEL: 024778 FRAME: 0498

[1st Inventor] Residence Address: Tokyo, Japan Mailing Address: c/o TOPPAN PRINTING CO., LTD., 5-1, Taito 1-chome, Taito-ku, Tokyo 110-0016 Japan Citizenship: Japan Mie Shimizu Date: [2nd Inventor] Residence Address: Tokyo, Japan Mailing Address: c/o TOPPAN PRINTING CO., LTD., 5-1, Taito 1-chome, Taito-ku, Tokyo 110-0016 Japan Citizenship: Japan Koichi Minato Date: [3rd Inventor] Residence Address: Takaishi-shi, Japan Mailing Address: c/o Sakai Plant, DIC Corporation, 3, Takasago 1-chome, Takaishi-shi, Osaka 592-0001, Japan

Masaharu Tahahashi

RECORDED: 07/28/2010

MAY 17. 2010

Masaharu Takahashi

Citizenship: Japan

Date:

PATENT REEL: 024778 FRAME: 0499