# 502505329 09/23/2013

# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### CONVEYING PARTY DATA

Name	Execution Date
Hiroyuki HIRAKAWA	06/26/2013
Atsushi SATO	06/27/2013

# **RECEIVING PARTY DATA**

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State/Country:	JAPAN	
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#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14006629

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NAME OF SUBMITTER:	ANH-VU DAO
Signature:	/anh-vu dao/
Date:	09/23/2013

# Total Attachments: 2

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PATENT REEL: 031259 FRAME: 0062

# BIRCH, STEWART, KOLASCH & BIRCH, LLP

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# **ASSIGNMENT**

Application No.	14/006,629	Filed _	September 20, 2013
Insert Name(s) of Inventor(s)	***(Given Name FAN		
`,	WHEREAS, <u>Hiroyuki HIRAKAWA ar</u> has (have) invented certain new and use	nd Atsushi SATO; (ful improvements in:	hereinafter designated as the undersigned)
Insert Title of Invention	SEMICONDUCTOR DEVICE		TION OF LIGHT, AND OPTICAL
	for which an application for Letters Pa undersigned (except in the case of a pro-	visional application)	ates of America has been executed by the
Insert Date of Signing of	on June 26, 2013; June 27, 2013		; and
Application Insert Name of Assignee	WHEREAS, DAICEL CORPORAT	TION	
Insert Address of Assignee	of3-4-5, Umeda, Kita-ku, Osaka-shi	i, Osaka 530-0001 JA	PAN
CHECK BOX IF APPROPRIATE	its heirs, successors, legal representated desirous of acquiring the entire right, tit Patent(s) that may be granted therefor in Imany foreign countries.	tle and interest in and	ereinafter designated as the Assignee) is to said invention and in and to any Letters America and
IF AFFROFRIATE	paid, the receipt of which is hereby a undersigned has (have) sold, assigned transfer unto said Assignee the full an America its territories, dependencies an	acknowledged, and or and transferred, and dexclusive right to ad possessions and the granted therefor in the	ollars (\$10.00) to the undersigned in hand ther good and valuable consideration, the d by these presents does sell, assign and the said invention in the United States of e entire right, title and interest in and to any ne United States of America, its territories, ated, in any and all foreign countries;
	and to any and all divisions, reissues, co		ons and extensions thereof for the full term

3273-0332PUS1 Attorney Docket No.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	6/26/2013,	Name of Inventor Hiroyuki Hirahawa
		(signature) " Hiroyuki HIRAKAWA
Date	6/27/2013,	Name of Inventor <u>Atsushi</u> <u>Sato</u> (signature) Atsushi SATO