

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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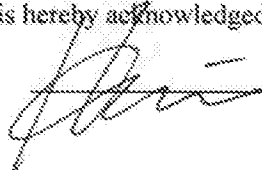
EPAS ID: PAT3931346

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	HAK JAE KIM	05/31/2016
RECEIVING PARTY DATA		
Name:	DONG-A PENCIL CO., LTD.	
Street Address:	4TH FLOOR, 601, EONJU-RO, GANGNAM-GU	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15186253
CORRESPONDENCE DATA		
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
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ATTORNEY DOCKET NUMBER:	095052-0021	
NAME OF SUBMITTER:	SOYEON PAK (KAREN) LAUB, REG. #39,266	
SIGNATURE:	/Soyeon Pak (Karen) Laub/	
DATE SIGNED:	06/20/2016	
Total Attachments: 2		
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ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Hak Jae KIM



who have made a certain new and useful invention, hereby sell, assign and transfer unto

Dong-A Pencil Co., Ltd.

4th Floor, 601, Eonju-ro,

Gangnam-gu, Seoul,

Korea

and its successors, assigns and legal representatives (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

THERMOCHROMIC MICRO PARTICLES AND THERMOCHROMIC INK
COMPOSITION, WRITING APPARATUS AND SMART WINDOW USING THE SAME

for which an application for United States Letters Patent was filed on June 17, 2016, and identified by United States Application No. 15/186,253;

and the undersigned hereby authorize and request the registered practitioners of McDermott Will & Emery LLP to insert the filing date and application number of said application as necessary;

and the undersigned hereby authorize and request the United States Commissioner for Patents and Trademarks to issue any and all United States Letters Patent and certificates which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, continuations-in-part, re-examinations, inter partes reviews, post grant reviews and covered business methods thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to said ASSIGNEE, for its interest as ASSIGNEE; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

and the undersigned hereby agree to transfer a like interest, to render all necessary assistance in making application for and obtaining original, extended, divisional, reissued, substituted, renewed, continued, continued-in-part, re-examined, inter partes review, post grant review and covered business method Letters Patent and certificates of the United States, upon request of said ASSIGNEE and without further remuneration, in

and to any improvements and applications for patent based thereon, growing out of or related to said invention, and to execute any papers by or for said ASSIGNEE, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

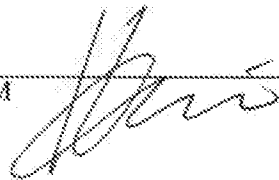
SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

D)

Name: Hak Jae KIM



May 31, 2016