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Koji Asakawa

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Execution Date(s) September 24, 2008

- | | |
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2. Name and address of receiving party(ies)

Name: KABUSHIKI KAISHA TOSHIBA

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Street Address: 1-1, Shibaura 1-chome

Minato-ku

City: Tokyo

State: _____

Country: JP

Zip: 105-8001

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

12/091,668

Additional numbers attached? ☐ Yes ☒ No

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

Name: Stephen B. Parker

Internal Address: Attorney Docket No. 3092.110C

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6. Total number of applications and patents involved: one (1)

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

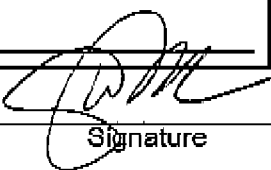
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Signature

12/20/08
Date

Stephen B. Parker, Reg. No. 36,631

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

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PATENT

REEL: 022021 FRAME: 0688

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ASSIGNMENT

WHEREAS, the below-signed individual (hereinafter, **ASSIGNOR**) is a co-inventor, along with Vincent PELLETIER, Mingshaw WU, Douglas ADAMSON, Richard A. REGISTER, Paul M. CHAIKIN of Princeton University, having a place of business at Office of Technology Licensing and Intellectual Property, 4 New South Building, Princeton, New Jersey, of an invention in **SHORT-WAVELENGTH POLARIZING ELEMENTS AND THE MANUFACTURE AND USE THEREOF**, for which I have executed an application for Letters Patent of the United States, said filing date of such application being **April 25, 2008**, and relating to application Serial No. **12/091,668**, and also 2) related to application Serial No. **11/532,908**, said filing date being **September 19, 2006**, and 2) an International Application under the PCT, said filing date being **October 31, 2006**, and relating to PCT application Serial No. **PCT/US2006/42378**;

WHEREAS, Kabushiki Kaisha Toshiba, incorporated in Japan, with a place of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, 105-8001, Japan, (hereinafter, **CO-ASSIGNEE**) has received and is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application within the territories of the United States and within countries foreign to the territories of the United States;

Our entire right, title and interest worldwide have been and are now to be sold, assigned, transferred and set over to said **ASSIGNEE** under the terms herein.

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 **ASSIGNORS** have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over:

a) (United States) unto the said **ASSIGNEE**, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention within the territories of the United States, 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 we hereby authorize and request the Commissioner of Patents of the United States, whose duty it is to issue patents on applications as aforesaid, to issue all United States Letters Patents for said invention to the said **ASSIGNEE**, its successors, legal representatives and assigns, in accordance with the terms this instrument; and

b) (Countries Foreign to the United States) unto the said **ASSIGNEE**, our entire right, title and interest to and under all applications for Letters Patent which have been or may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention, and we hereby authorize and request 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

3092-110C

for any Country Foreign to the United States for said invention to the said **ASSIGNEE**, its successors, legal representatives and assigns, in accordance with the terms this instrument;

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said **ASSIGNEE**, its successors, legal representatives and assigns, any facts known to us respecting said invention, 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 the said **ASSIGNEE**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN TESTIMONY WHEREOF, we, the below-listed **ASSIGNORS**, hereunto set our hands and seals the day and year set opposite our respective signatures.

Date Sep 24, 2008

Koji Asakawa
Signature

Printed Name: Koji ASAKAWA

Address: 1-1-11-208 Daishigawara, Kawasaki-
Ru, Kawasaki, Kanagawa, 210-0811, Japan