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To the Commissioner of Patents and Trademarks: Please reco.

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thereof.

1. Name of conveying party(ies):

1) Takeshi Ichikawa, 2) Katsumi Kurematsu, and
3) Osamu Koyama

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

2. Name and address of receiving party(ies):

Name: CANON KABUSHIKI KAISHAForeign Address: 30-2, 3-chome, Shimomaruko, Ohta-kuTokyo, Japan

Domestic Address: _____

City: _____ State: _____ ZIP: _____

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

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Execution Date: 1), 3) Dec 3, 1998; 2) Dec 2, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application Number: 09/172,775

B. Title of Invention:

MATRIX SUBSTRATE AND LIQUID CRYSTAL
DISPLAY DEVICE USING THE SAME

Filing Date: October 15, 1998

Additional numbers attached?

☐ Yes☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:Name: Fitzpatrick, Cella, Harper & Scinto30 Rockefeller PlazaNew York, New York 10112-3801Telephone No.: (212) 218-2100Facsimile No.: (212) 218-2200

6. Number of applications and patents involved:

One

7. Total fee (37 CFR 3.41): . . . \$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number (for deficiency or excess)

06-1205

(Attach duplicate copy of this page if paying by deposit account):

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and the attached is the original document or is a true copy of the original document.

12/16/1998 NGUYEN 00000291 09172775

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Lawrence S. Perry

40.00 OP

Name of Person Signing

Signature

December 9, 1998

Date

Total number of pages including cover sheet, attachments, and documents: 2

JOINT

(AFTER APPLICATION FILED)

ASSIGNMENT OF PATENT RIGHTS FOR THE UNITED STATES

FOR VALUE RECEIVED, WE, **Takeshi Ichikawa, Katsumi Kurematsu and Osamu Koyama**

citizens of **Japan**

residing, respectively, at **3-2153-38, Motohachioji-machi, Hachioji-shi, Tokyo, Japan; 409-15, Matoi, Hiratsuka-shi, Kanagawa-ken, Japan and 633-1, Higashiasakawa-machi, Hachioji-shi, Tokyo, Japan**

hereby sell, assign, transfer and convey unto **Canon Kabushiki Kaisha**

a corporation of Japan

having a place of business at 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the United States, in and to certain inventions relating to

MATRIX SUBSTRATE AND LIQUID CRYSTAL DISPLAY DEVICE USING THE SAME

and described in an application for Letters Patent of the United States of the United States filed by us on **October 15, 1998** and which has been accorded Application No. **09/172,775**

and in and to 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 and Trademarks of the United States to issue all Letters Patent upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right or priority provided by the International Convention for the Protection of Industrial Property as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of an assignment, consent to file or like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominees to claim the aforesaid benefit of the right or priority provided by the International Convention for the Protection of Industrial Property as amended, or by any convention which may henceforth be substituted for it.

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

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, to make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent protection for said inventions in the United States.

By: Takeshi Ichikawa
Takeshi Ichikawa

Date: December 3, 1998

By: Katsumi Kurematsu
Katsumi Kurematsu

Date: December 2, 1998

By: Osamu Koyama
Osamu Koyama

Date: December 3, 1998

By: _____

Date: _____

By: _____

Date: _____