



To the Honorable Commissioner of Patents

101178242

red original documents or copy thereof.

1. Name of conveying party(ies):  
 TAKESHI AKIYAMA and KEISUKE ARAKI

Additional name(s) of conveying party(ies) attached?  
 Yes  No

*MRD 10-18-99*

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

Name: CANON KABUSHIKI KAISHA

Foreign Address: 30-2, Shimomaruko 3-chome, Ohta-ku  
Tokyo, Japan

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: September 17, 1999

Domestic Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

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

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: 09/361,966  
 Filing Date: July 28, 1999

Additional numbers attached?  Yes  No

B. Title of Invention:  
OPTICAL SYSTEM

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

Name: Fitzpatrick, Cella, Harper & Scinto  
30 Rockefeller Plaza  
New York, New York 10112-3801

Telephone No.: (212) 218-2100  
 Facsimile 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.*

*07/17/1999*

SCOTT D. MALPEDE, Reg. No. 32,533  
 Name of Person Signing

*Scott D. Malpede*  
 Signature

October 18, 1999  
 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 AKIYAMA and KEISUKE ARAKI

citizens of JAPAN
residing respectively at
2-2-403, Rokkakubashi 4-chome, Kanagawa-ku, Yokohama-shi,
Kanagawa-ken, Japan; and
1213-8, Kamiyabe-cho, Totsuka-ku, Yokohama-shi, Kanagawa-ken,
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 OPTICAL SYSTEM

and described in an application for Letters Patent of the United States filed by us on July 28, 1999
and which has been accorded Application No. 09/361,966
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 for 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, the benefit of the right of 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 any
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 of 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, 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 Akiyama
TAKESHI AKIYAMA

Date: September 17, 1999

By: Keisuke Araki
KEISUKE ARAKI

Date: September 17, 1999

By: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_