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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Case No: 5101

To the Honorable Commissioner of Patents and Trademarks: Please receive the attached original document(s) or copy(ies) thereof.

1. Name of conveying party(ies):

Howard G. King

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

3. Nature of conveyance:

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

Execution Date: December 9, 2003

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

Name: Applera Corporation

Internal Address: Applied Biosystems Group

Street Address: 850 Lincoln Centre Drive

City: Foster City State: CA ZIP: 94404-1128

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: **December 10, 2003**

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Phil N. Makrogiannis
Applied Biosystems Group
850 Lincoln Centre Drive
Foster City, California 94404-1128

Telephone: 650-570-6667

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

☒ Authorization to charge additional fees.

8. Deposit account number:

01-2213

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

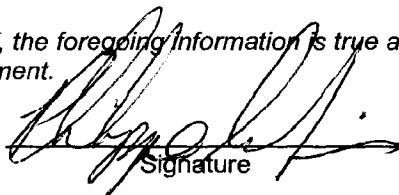
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9. Statement and signature.

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

Phil Makrogiannis, Reg. No. 47,766

Name of Person Signing



Signature

12/12/03

Date

Total number of pages comprising cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignments, Commissioner of Patents and Trademarks,
P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT
REEL: 014802 FRAME: 0362

ASSIGNMENT

For good and valuable consideration paid to me, receipt of which is hereby acknowledged, I,

Howard G. King, 1610 Beverly Place, Berkeley, CA 94707, Citizenship: US

do hereby sell, assign, and set over unto

Applera Corporation

a Delaware corporation having a place of business at 850 Lincoln Centre Drive, Foster City, California (hereinafter "Assignee"), its successors, legal representatives and assigns, my entire right, title, and interest in and to any and all of my inventions and discoveries entitled:

EXCITATION AND EMISSION FILTER

as described and/or claimed in my United States patent application, having an oath or declaration fully executed by me and, subsequently assigned Serial Number _____ and filing date of _____ by the United States Patent and Trademark Office; in and to the right to file patent applications in the name of Assignee, its designee, in my name, or in any of my other name or names, on the aforesaid inventions and discoveries in any or all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified United States patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models, and under any other international arrangement to which the United States now is or hereafter becomes a signatory; in and to any and all applications for Letters Patent, and any and all Letters Patent that issue on any of the aforesaid applications, and in and to any and all divisions, continuations, and continuations-in-part of any and all of said applications, and any and all reissues, renewals and extensions of any of said Letters Patent, such that the same right, title and interest to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, shall be as full and complete as that that would have been held and enjoyed by me if this assignment and sale had not been made.

I further hereby covenant and agree, for the same consideration, whenever counsel of Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with said invention, or said application for Letters Patent, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable to sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

I hereby authorize Assignee to insert in this instrument the serial number and filing date of said application when officially notified thereof.

Name of inventor: **Howard G. King**

Inventor's signature Howard A. G. Date: 12/9/03

[illegible]

On December 9, 2003 before me, Cheryl R. Gomez, Notary Public, personally appeared Howard G. King, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.


WITNESS my hand and official seal.



Cheryl R. Doney
Notary Public

**LIMITED AUTHORIZATION TO ACT ON BEHALF OF ASSIGNEE
REGARDING CERTAIN PATENT AND TRADEMARK MATTERS EFFECTIVE
THROUGH: December 31, 2005**

I, Paul D. Grossman, as Assistant Secretary of Applera Corporation ("Applera"), hereby authorize: Vincent M. Powers, Reg. No. 36, 246, Scott R. Bortner, Reg. No. 34,298, Jeffery D. Frazier, Reg. No. 34,601, and Andrew T. Karnakis, Reg. No. 27,909, all Senior Patent Attorneys, (1) to act on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark entities, (2) to execute power of attorney documents on behalf of Applera, to appoint and/ or establish any attorneys, agents, and/ or law firms to act on behalf of Applera, in any foreign or international patent or trademark applications filed with any foreign and/ or international patent or trademark offices, and (3) to execute assignment and ownership documents on behalf of Applera, with regard to any matters before the United States Patent and Trademark Office, any foreign patent or trademark offices, and any international patent or trademark offices.



Paul D. Grossman
Assistant Secretary, Applera Corporation

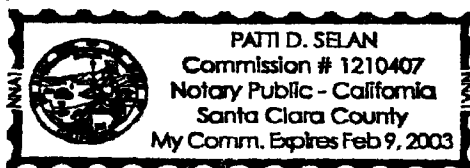
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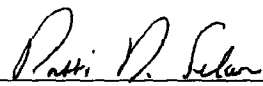
Date

State of California)
) ss.
County of San Mateo)

On Jan. 9, 2003 before me, Patti D. Selan, Notary Public, personally appeared Paul D. Grossman, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

WITNESS my hand and official seal.





Notary Public