



RESPONSE UNDER 37 C.F.R. §1.116
EXPEDITED PROCEDURE
EXAMINING GROUP ART UNIT 1631

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Stavrianopoulos, <i>et al.</i>)	
Serial No.:	08/486,070)	Group Art Unit: 1631
Filed:	June 7, 1995)	Ex'r: Ardin H. Marschel, Ph.D.
For:	ARRAYS AND SYSTEMS COMPRISING)	
	ARRAYS FOR GENETIC ANALYSES AND)	
	OTHER APPLICATIONS)	
	(As Previously Amended))	

527 Madison Avenue, 9th Floor
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June 30, 2004

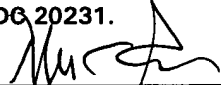
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. §1.116
(IN RESPONSE TO THE APRIL 7, 2004 OFFICE ACTION)

Dear Sirs:

This is a response (Amendment Under 37 C.F.R. §1.116) to the Office Action mailed on April 7, 2004 in connection with the above-identified application. A response to the April 7, 2004 Office Action is initially due by July 7, 2004. Accordingly, this response (Amendment Under 37 C.F.R. §1.116) is being timely filed and no extension request or fees are believed due.

EXPRESS MAIL CERTIFICATE	
"Express Mail" Label No. <u>EV531083255US</u>	
Deposit Date <u>June 30, 2004</u>	
I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.	
 _____ Ronald C. Fedus Reg. No. 32,567	<u>JUNE 30 2004</u> _____ Date

KINDLY AMEND THE ABOVE-IDENTIFIED APPLICATION AS FOLLOWS:

In The Title of the Invention: Change the title to:

-- Nucleic Acids Fixed or Immobilized to Non-Porous Solid Support, and System, Array and Non-Porous Glass or Plastic Solid Support Comprising Such Fixed or Immobilized Nucleic Acids -- .

In The Claims: Please enter the complete listing of all claims provided below.

Claims 1-2160 (Previously Canceled).

Claims 2161-3143 (Canceled).

Claim 3144. (New) A non-porous solid support comprising at least one single-stranded nucleic acid directly or indirectly fixed or immobilized thereto in hybridizable form, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3145. (New) A non-porous solid support comprising at least one double-stranded nucleic acid fixed or immobilized thereto, wherein at least one nucleic acid strand of said double-stranded nucleic acid comprises at least one non-radioactive chemical label which is quantifiable or detectable, wherein when said nucleic acid is indirectly fixed or immobilized to said non-porous solid support, said indirect fixation or immobilization is not to a cell fixed *in situ* to said non-porous solid support.

Claim 3146. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support comprises glass or plastic.

Claim 3147. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support comprises a plate, a well or wells, a microtiter well or microtiter wells, depressions, tubes, cuvettes, beads, or a set of said plates, wells, depressions, tubes, cuvettes or beads.

Claim 3148. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support comprises more than one surface.

Claim 3149. (New) The non-porous solid support of claim 3144 or 3145, comprising reactive sites or binding sites thereon, wherein said nucleic acid is fixed or immobilized to one of said reactive sites or binding sites.

Claim 3150. (New) The non-porous solid support of claim 3149, wherein said reactive sites or binding sites comprise one or more amines, hydroxyls or epoxides.

Claim 3151. (New) The non-porous solid support of claim 3144 or 3145, wherein said non-porous solid support has been treated with a surface treatment agent, a blocking agent, or both.

Claim 3152. (New) The non-porous solid support of claim 3151, wherein said surface treatment agent comprises an amine providing compound, an epoxy glue or solution, an acid solution, or ammonium acetate.

Claim 3153. (New) The non-porous solid support of claim 3151, wherein said blocking agent comprises Denhardt's solution.

Claim 3154. (New) The non-porous solid support of claim 3144 or 3145, wherein said direct or indirect fixation or immobilization to said non-porous solid support is covalent.

Claim 3155. (New) The non-porous solid support of claim 3144 or 3145, wherein said direct or indirect fixation or immobilization to said non-porous solid support is non-covalent.

Claim 3156. (New) The non-porous solid support of claim 3144, wherein said single-stranded nucleic acid is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3157. (New) The non-porous solid support of claim 3145, wherein one strand of said double-stranded nucleic acid is indirectly fixed or immobilized to said non-porous solid support by sandwich hybridization or by hybridization to a complementary nucleic acid strand.

Claim 3158. (New) The non-porous solid support of claim 3144, wherein said nucleic acid comprises DNA or RNA.

Claim 3159. (New) The non-porous solid support of claim 3145, wherein said nucleic acid comprises DNA, RNA or both.

Claim 3160. (New) The non-porous solid support of claim 3144, wherein said nucleic acid comprises a nucleic acid sequence complementary to a nucleic acid sequence of interest sought to be identified, quantified or sequenced.

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