504464871 07/19/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TOD WOOLF	08/05/2005

RECEIVING PARTY DATA

Name:	INVITROGEN CORPORATION
Street Address:	1600 FARADAY AVENUE
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92008

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15418653	

CORRESPONDENCE DATA

Fax Number: (760)476-6048

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (760)603-7200

Email: LSGDocketing@thermofisher.com

Correspondent Name: LIFE TECHNOLOGIES CORPORATION

Address Line 1: ATTN: IP LEGAL DEPARTMENT

Address Line 2: 5823 NEWTON DRIVE

Address Line 4: CARLSBAD, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	IVGN418.12CON
NAME OF SUBMITTER:	GRACIE SEGOVIA
SIGNATURE:	/Gracie Segovia/
DATE SIGNED:	07/19/2017

Total Attachments: 1

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PATENT 504464871 REEL: 043048 FRAME: 0765

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to INVITROGEN CORPORATION (the "Assignee"), having a place of business at 1600 Faraday Avenue, Carlsbad, CA 92008, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 11/049,636 filed on February 2, 2005, and is entitled DOUBLE-STRANDED OLIGONUCLEOTIDES, such application and all divisional, continuing, continuation-in-part, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof, and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature)	Ed M. Wood	Date:	8/5/05	·
Name:	Tod M. Woolf		·	
and acknowledge therein expresse	RE ME, the undersigned authority, or I. Woolf known to me to be the personge to me that he executed the same ced.	of his own free wi	of August ubscribed to the for ill for the purposes ry or Consular Off	and consideration
[CEAI]				

PATENT REEL: 043048 FRAME: 0766