

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NORBERT HAGEN	04/24/2013
DAVID OPALSKY	04/24/2013
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16179609
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<b>NAME OF SUBMITTER:</b>	CHARLES B. CAPPELLARI
<b>SIGNATURE:</b>	/Charles B. Cappellari/
<b>DATE SIGNED:</b>	11/05/2018
<b>Total Attachments: 2</b>	
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source=Executed Assignment#page2.tif	

**ASSIGNMENT BY INVENTOR(S) OF  
PROVISIONAL PATENT APPLICATION FOR ALL COUNTRIES**

BE IT KNOWN THAT, for good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR(S)) by

Name: **GEN-PROBE INCORPORATED**  
Address: **10210 GENETIC CENTER DRIVE, SAN DIEGO, CALIFORNIA 92121-1589**  
(City, State/Province, Country/ Zip)

(hereinafter ASSIGNEE),

the receipt and adequacy of which of which is hereby acknowledged, ASSIGNOR(S) hereby sell(s), assign(s) and transfer(s) to ASSIGNEE all of his/her right, title and interest in, to and under the invention and provisional patent application entitled **INDEXING SIGNAL DETECTION MODULE** for which provisional patent application ASSIGNOR(S) is/are the sole or a joint inventor and which provisional patent application is identified herein and/or is further identified as follows:

U.S. Serial No.: **61/782,340** Filing Date: **March 14, 2013**  
(Rothwell, Figg, Ernst & Manbeck is hereby authorized to insert the series code, serial or application number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained on any application claiming the benefit of this provisional patent application, and all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of this provisional patent application which are created by any law, treaty or international convention, for the full term or terms for which the same may be granted, including all rights to recover damages for any and all past infringement; and

ASSIGNOR(S) agree(s) to execute all papers necessary in connection with said provisional patent application and any application claiming the benefit of this provisional patent application and to execute separate assignments in connection with such applications as ASSIGNEE may deem necessary.

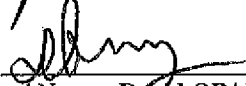
ASSIGNOR(S) agree(s) to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any application claiming the benefit of this provisional patent application or Letters Patent, reissue patent or reexamination certificate issued on any application claiming the benefit of this provisional patent application and to cooperate with ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

ASSIGNOR(S) covenant(s) that he/she has the full right to convey the entire interest herein assigned and has not executed, and will not execute, any agreement in conflict herewith.

ASSIGNOR(S) acknowledge(s) that ASSIGNEE may appoint any attorney or practitioner of ASSIGNEE's choice to prosecute any application or other legal proceeding involving said invention and ASSIGNOR(S) further acknowledge(s) that any attorney or practitioner so appointed by ASSIGNEE does not represent ASSIGNOR(S) and that such appointment by ASSIGNEE does not create any attorney-client relationship between ASSIGNOR(S) and any attorney or practitioner appointed by ASSIGNEE.

IN WITNESS WHEREOF, the undersigned ASSIGNOR(S) has/ have affixed his/her signature below.

Signature:  Date: April 24, 2013  
Typed Name: **Norbert HAGEN**

Signature:  Date: APRIL 24, 2013  
Typed Name: **David OPALSKY**

WITNESSES: (optional)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
          Typed Name:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
          Typed Name:

NO LEGALIZATION REQUIRED. THIS DOCUMENT MAY BE NOTARIZED IF DESIRED FOR FURTHER PROOF OF EXECUTION.

<b>ACCEPTED AND ACKNOWLEDGED FOR AND ON BEHALF OF THE ASSIGNEE:</b>
<b>ASSIGNEE NAME: GEN-PROBE INCORPORATED</b>
SIGNATURE OF AUTHORIZED PERSON
TYPED/PRINTED NAME OF AUTHORIZED PERSON
TYPED TITLE:
DATE: