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VCENP02745NP

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1. Name of conveying party(ies):  
Rodney D. Gilchrist  
Vrijmoed Chi  
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date: May 26, 1999; Jan. 26, 2000

2. Name and address of receiving party:  
Name: Visible Genetics Inc.  
Address: 700 Bay Street  
Toronto, Ontario, Canada M5G 1Z6  
Additional name(s) & address(es) attached? ☐ Yes ☒ No

Type of Submission:  
☒ New  
☐ Resubmission (Non-Recordation)  
Document ID # \_\_\_\_\_  
☐ Correction of PTO Error  
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☐ Corrective Document  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

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 or PCT Application No. (s)  
09/147,916

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: OPPEDAHL & LARSON LLP

Address: P.O. Box 5270

City: Frisco State: CO Zip: 80443

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

8. Deposit account number: 15-0610  
(Attach duplicate copy of this page)

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.

Nancy J. Parsons

Name of Person Signing

Signature

Date

Total number of pages comprising assignment and cover sheet: 4

(OMB No. 0651-0011) (exp. 4/94)

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PATENT

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REEL: 010411 FRAME: 0496

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## ASSIGNMENT

WHEREAS, we, RODNEY D. GILCHRIST and VRUMOED CHI, have made an invention entitled METHOD AND APPARATUS FOR ALIGNMENT OF SIGNALS FOR USE IN DNA BASE-CALLING as set forth in an application for letters of the United States Serial No. 09/147,916 filed March 23, 1999, and

WHEREAS, VISIBLE GENETICS, INC., a company organized under the laws of Ontario, Canada and having a place of business at 700 Bay Street, Toronto, Ontario, Canada is desirous of acquiring all right, title and interest in and to said invention and any improvements thereon, and in and to said application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, RODNEY D. GILCHRIST and VRUMOED CHI for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to me in hand paid by VISIBLE GENETICS, INC., and other valuable consideration unto me moving from VISIBLE GENETICS, INC., at or before the sealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said VISIBLE GENETICS, INC., its successors and assigns, the entire right, title and interest in and to said invention entitled METHOD AND APPARATUS FOR ALIGNMENT OF SIGNALS FOR USE IN DNA BASE-CALLING as set forth in the application for Letters Patent of the United States filed March 23, 1999 and assigned Serial No. 09/147,916, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, RODNEY D. GILCHRIST and VRUMOED CHI, do hereby authorize and request the Commissioner of Patent and Trademarks of to issue said Letters Patent of the United States to VISIBLE GENETICS, INC. as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of VISIBLE GENETICS, INC., its successors and assigns;

AND WE, RODNEY D. GILCHRIST and VRUMOED CHI, for the considerations aforesaid, do hereby covenant and agree to and with VISIBLE GENETICS, INC., its successors and assigns, that I have the full power to make this assignment, and that the rights

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assigned are not encumbered by any grant, license or right heretofore given, and that I, my executors and administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all instruments in writing, further applications, papers, affidavits, powers of attorney, assignments and other documents which, in the opinion of counsel for VISIBLE GENETICS, INC., its successors or assigns, may be required or necessary more effectively to secure to and vest in VISIBLE GENETICS, INC., its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that I will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, WE, RODNEY D. GILCHRIST and VRLIMOED CHI, have hereunto set our hands and seals on the date written below.

  
RODNEY D. GILCHRIST

BE IT KNOWN, that on this 26<sup>th</sup> day of January, <sup>2000</sup>~~1999~~, before me personally came, RODNEY D. GILCHRIST, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the purposes therein mentioned.

  
Notary Public

\_\_\_\_\_  
VRLIMOED CHI

BE IT KNOWN, that on this \_\_\_\_\_ day of \_\_\_\_\_, 1999, before me personally came, VRLIMOED CHI, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the purposes therein mentioned.

\_\_\_\_\_  
Notary Public

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assigned are not encumbered by any grant, license or right heretofore given, and that I, my executors and administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all instruments in writing, further applications, papers, affidavits, powers of attorney, assignments and other documents which, in the opinion of counsel for VISIBLE GENETICS, INC., its successors or assigns, may be required or necessary more effectively to secure to and vest in VISIBLE GENETICS, INC., its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that I will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, WE, RODNEY D. GILCHRIST and VRUMOED CHI, have hereunto set our hands and seals on the date written below.

RODNEY D. GILCHRIST

BE IT KNOWN, that on this \_\_\_\_ day of \_\_\_\_\_, 1999, before me personally came, RODNEY D. GILCHRIST, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the purposes therein mentioned.

Notary Public

VRUMOED CHI

BE IT KNOWN, that on this 26<sup>th</sup> day of May, 1999, before me personally came, VRUMOED CHI, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the purposes therein mentioned.

Notary Public

**FREDERICK KA-CHONG KAN**  
Notary Public, Hong Kong SAR  
3104-6, 31st, Central Plaza  
18 Harbour Road, Hong Kong

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