

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5817626

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HAILI CHUI	11/06/2019
XIANGWEI ZHANG	11/06/2019
XIAOMIN LIU	11/12/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HOLOGIC, INC.
<b>Street Address:</b>	250 CAMPUS DRIVE
<b>City:</b>	MARLBOROUGH
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01752
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62479008
<b>PCT Number:</b>	US2018024912
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)877-1662
<i>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.</i>	
<b>Phone:</b>	(408) 777-2902
<b>Email:</b>	nnr@viplawgroup.com
<b>Correspondent Name:</b>	VISTA IP LAW GROUP LLP - N RUSHTON
<b>Address Line 1:</b>	2160 LUNDY AVE.
<b>Address Line 2:</b>	SUITE 230
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95131
<b>ATTORNEY DOCKET NUMBER:</b>	BSH.0009 PR + WO
<b>NAME OF SUBMITTER:</b>	NANCY RUSHTON
<b>SIGNATURE:</b>	/Nancy Rushton/
<b>DATE SIGNED:</b>	11/13/2019
<b>Total Attachments: 4</b>	
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COMBINED DECLARATION AND ASSIGNMENT OF PATENT  
APPLICATION

WHEREAS, WE, HAILI CHUI, XIAOMIN LIU and XIANGWEI ZHANG, (hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled **SYSTEM AND METHOD FOR SYNTHESIZING LOW-DIMENSIONAL IMAGE DATA FROM HIGH-DIMENSIONAL IMAGE DATA USING AN OBJECT GRID ENHANCEMENT** for which United States Provisional Patent Application No. **62/479,008** was filed with the United States Patent and Trademark Office on **March 30, 2017**; and PCT application no. **PCT/US2018/024912** was filed with the United States Patent and Trademark Receiving Office on **March 28, 2018**, and U.S. Application No. **16/497,766** was filed with the United States Patent and Trademark Office on **September 25, 2019**, and

WHEREAS, I, Haili Chui, Xiaomin Liu, and Xiangwei Zhang, declare the above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both; and

WHEREAS, HOLOGIC, INC., a corporation organized and existing under and by virtue of the laws of the state of Delaware and having its principal place of business at 250 Campus Drive, Marlborough, Massachusetts 01752, (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

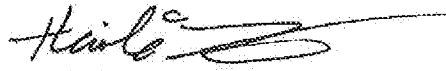
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent and applications therefore, or similar legal protection, including without limitation said U.S. Provisional Application Serial No. **62/479,008** and PCT application no. **PCT/US2018/024912** and U.S. Patent Application Serial No. **16/497,766**, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said applications, and to any continuation, continuation-in-part, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country

for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof, to issue said patents to ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby confirm that they each had, as of the time said invention was conceived and continuing to have to the present date, an obligation to assign said invention to ASSIGNEE under their respective employment agreements, and hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement. ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

11/6/2019

Date



Haili Chui

ZHANG, XIANGWEI

Name of Witness

  
Signature of Witness

11/12/2019  
Date

Xiaomin Liu  
Xiaomin Liu

fook shian Toong  
Name of Witness

[Signature]  
Signature of Witness

\_\_\_\_\_  
Date

\_\_\_\_\_  
Xiangwei Zhang

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Name of Witness

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Signature of Witness

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Date

\_\_\_\_\_  
Xiaomin Liu

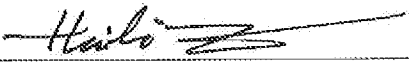
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Name of Witness

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Signature of Witness

11/6/2019  
Date

  
\_\_\_\_\_  
Xiangwei Zhang

Haili Chen  
Name of Witness

  
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Signature of Witness