

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| YUNZHE ZHAO | 07/18/2020 |
| RECEIVING PARTY DATA | |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16830080 |
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| ATTORNEY DOCKET NUMBER: | 2700-25417-NON-PROV-CVI |
| NAME OF SUBMITTER: | MICHAEL J. KAVETSKY |
| SIGNATURE: | /Michael J. Kavetsky/ |
| DATE SIGNED: | 07/30/2020 |
| Total Attachments: 1 | |
| source=2700-25417-NON-PROV-CVI_Assignment#page1.tif | |

ASSIGNMENT

FOR VALUE RECEIVED, I

Yunzhe Zhao, residing at **Irvine, California**,

hereby sell, assign, transfer, and convey unto

Canon Virginia, Inc., a corporation of Virginia

having a place of business at 12000 Canon Blvd, Newport News, VA 23606

(hereinafter called the "Assignee"), any right, title, and interest that I have in and to the inventions that are described in an application for a United States patent (the "Application") that is entitled

DEVICES, SYSTEMS, AND METHODS FOR LIMITED-SIZE DIVISIVE CLUSTERING

By: Yunzhe Zhao

(Attorney Docket No.: 2700-25417-NON-PROV-CVI)

and described in an application for Letters Patent of the United States (the "Application") which is filed concurrently herewith or was filed on March 25, 2020 and accorded Serial No. 16/830,080, and in and to said application, and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent, Patent Cooperation Treaty patent applications, national phase applications thereof, or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals, and extensions thereof; and I hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority to do so, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as the Assignee may designate.

AND I authorize and empower the Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by the Assignee or nominees, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

AND I hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file, or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND I hereby covenant that I have the full right to convey the entire right, title, and interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith.

AND I hereby covenant and agree that I will communicate to the Assignee or nominees all facts known to me pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and declarations, and in general perform all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said invention in any and all countries and regions.

AND I hereby authorize the attorneys of record for the Application or the attorneys' representative to fill in the application number and filing date in the spaces provided above.

/yunzhe zhao/
Yunzhe Zhao

July 18, 2020
Date