

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5605463

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
OPHIR FRIEDER	06/28/2019
IDA MELE	06/28/2019
RAFFAELE PEREGO	06/27/2019
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<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16408766
<b>PCT Number:</b>	US1931723
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	062491.004US1 ANDD PCT1
<b>NAME OF SUBMITTER:</b>	CINDY PHILLIPS
<b>SIGNATURE:</b>	/Cindy Phillips/
<b>DATE SIGNED:</b>	07/05/2019
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

This Assignment agreement is applicable to an invention entitled:

**CACHE OPTIMIZATION VIA TOPICS IN WEB SEARCH ENGINES**

The PATENT RIGHTS referred to in this agreement are: *(check one)*

- ☐ a patent application about to be filed in the United States Patent and Trademark Office.  
☐ a patent application for this invention, executed by the ASSIGNOR concurrently with this assignment.  
☒ U.S. Patent Application No. 16/408,766 filed May 9, 2019.  
☒ PCT International Application No. PCT/US19/31723 filed on May 10, 2019.  
☐ U.S. patent No. \_\_\_\_\_, issued \_\_\_\_\_.

The PATENT RIGHTS also include all non-provisionals, divisions, reissues, continuations and extensions of the patent application identified above.

The PATENT RIGHTS assigned under this agreement are: *(check one)*

- ☐ U.S. patent rights only.  
☒ Worldwide patent rights. In addition, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR referred to in this agreement is the inventor whose signature appears on page 2 of this Assignment.

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) Georgetown University  
(Address) 37<sup>th</sup> & O Streets, NW  
Washington, D.C. 20057

The ASSIGNEE is: *(check one)*

- ☐ An Individual.  
☐ A Partnership.  
☐ A Corporation of \_\_\_\_\_ *(specify state or country)*  
☒ (other) a nonprofit institute of higher education organized as a non-stock corporation under federal charter

The ASSIGNOR, in consideration of \$10.00 paid by the ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which is acknowledged, hereby assigns the following rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;  
the entire right, title and interest in and to the PATENT RIGHTS;  
the right to sue and recover for any past infringement; and,  
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions, based on any earlier patent applications for this invention.

THIS IS PAGE 2 OF AN ASSIGNMENT  
FROM THE INVENTORS TO ASSIGNEE: Georgetown University

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR agrees to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

<u>Ophir Frieder</u>	<u>Ophir Frieder</u>	<u>June 28, 2019</u>
Name of Inventor	Signature	Date

<u>Ida Mele</u>	<u>Ida Mele</u>	<u>June 28, 2019</u>
Name of Inventor	Signature	Date

<u>Raffaele Perego</u>	<u>Raffaele Perego</u>	<u>June 27, 2019</u>
Name of Inventor	Signature	Date

<u>Nicola Tonello</u>	<u>Nicola Tonello</u>	<u>June 28, 2019</u>
Name of Inventor	Signature	Date

SGR/21038646.1