



10-06-2003



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Docket No.: 03940013AA

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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To the Director of the United States Patent

Records are attached original documents or copy thereof.

1. Name of conveying party(ies):
**Jacob William Green, John Lane Schultz, Yair Amir,
Michael Truman Goodrich**

2. Name and address of receiving party(ies):

Name: **Johns Hopkins University**

Internal Address: _____

Street Address: **100 Charles Street, 5th Floor**

City: **Baltimore** State: **Md.** ZIP: **21201**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other _____

Execution Date: **6/30/03; 7/20/03; 7/30/03; 7/23/03**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

**10/257,255 filed on
August 2, 2003**

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Whitham, Curtis & Christofferson, P.C.**

Internal Address: **Customer Number: 30743**

10/03/2003 ECOOPER 00000172 10257235

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Street Address: **11491 Sunset Hills Road, Suite 340**

City: **Reston** State: **Va** ZIP: **20190**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

50-2041

(Attach duplicate copy of this page if paying by deposit account)

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.

Michael E. Whitham, Reg No. 32,635

Name of Person Signing

Signature

September 29, 2003

Date

Total number of pages including cover sheet, attachments, and document: **3**

Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 014545 FRAME: 0108

ASSIGNMENT OF INVENTION

WHEREAS WE, Jacob William Green, John Lane Schultz, Yair Amir and Michael Truman Goodrich, have invented certain new and useful improvements in an invention entitled: **RELEVANT SEARCH RANKINGS USING HIGH REFRESH-RATE DISTRIBUTED CRAWLING**, for which a United States Patent Application has been allotted serial number 10/257,255 and filed on October 10, 2002.

WHEREAS, Johns Hopkins University, having a principal place of business in Baltimore, Maryland, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring certain rights thereunder; and

NOW THIS INDENTURE WITNESSETH, that for a valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign and transfer unto said **ASSIGNEE** the entire right, title and interest in and throughout the United States of America (including its possessions and dependencies) and all countries foreign thereto, in and to said invention (whether patentable or not), of any country, which have been or may be granted on said invention or any part thereof, or any divisional, substitute, continuation-in-whole or in part, renewal, reissue or other patent applications based thereon, and based upon said invention, together with the right of said **ASSIGNEE** to apply for such patent in its own name in all countries of the world where such is permissible by law, and the right to claim the benefit of priority right provided by the International Convention of 1883, as amended to date, and any such priority right:

AND I do hereby authorize and request the Commissioner of Patents to issue any and all United States Patents which may be granted upon said invention or any part thereof, to said **ASSIGNEE**;

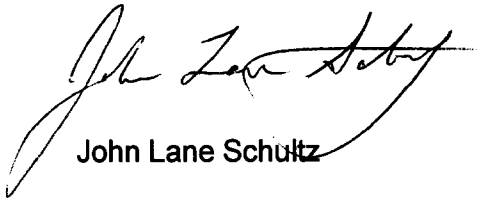
AND I hereby agree for myself, and for my heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any divisional, continuation-in-whole or in part, substitute, renewal, reissue, or other applications for patents for any country that might be deemed necessary by said assignee fully to secure to said assignee its interest as aforesaid in and to said invention or any part thereof, and in and to said several patent of any of them;

AND I hereby further agree to sign and properly execute such necessary and lawful papers for application for foreign patents and inventor's certificates for filing applications for United States, foreign patents and inventor's certificates for subdivisions of any applications for patent or inventor's certificate and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention and to perform such further acts as may be required to carry out the intent of this agreement as the **ASSIGNEE** thereof shall hereafter require and prepare at **ASSIGNEE'S** expense

Executed this 30 day of June, 2003



Jacob William Green

Executed this 20 day of July, 2003



John Lane Schultz

Executed this 30 day of July, 2003

Yair Amir 

Executed this 23rd day of July, 2003



Michael Truman Goodrich