

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TANMOY CHAKRABORTY	02/17/2021
WILLIAM SCOTT PAKA	02/13/2020
SHASHI KUMAR	02/05/2021
RECEIVING PARTY DATA	
Name:	OPTUM TECHNOLOGY, INC.
Street Address:	11000 OPTUM CIRCLE
City:	EDEN PRAIRIE
State/Country:	MINNESOTA
Postal Code:	55344
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17355731
CORRESPONDENCE DATA	
Fax Number:	(704)444-1111
<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>	
Phone:	704-444-1000
Email:	usptomail@alston.com
Correspondent Name:	ALSTON & BIRD LLP
Address Line 1:	BANK OF AMERICA PLAZA
Address Line 2:	101 SOUTH TRYON STREET, SUITE 4000
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28280-4000
ATTORNEY DOCKET NUMBER:	054642/696775
NAME OF SUBMITTER:	POOYA SHOGHI
SIGNATURE:	/Pooya Shoghi/
DATE SIGNED:	06/24/2021
Total Attachments: 3	
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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor ("Assignor") hereby sells and assigns, unto Optum Technology, Inc. ("Assignee"), and its successors and assigns, Assignor's entire worldwide right, title, and 100 % interest in and to all inventions, improvements, and discoveries (collectively, the "Inventions") set forth in the invention Disclosure Form IDF-001331, titled "An Unsupervised Approach to Assign ICD Codes to Clinical Text and to Rank the Code against the Letter," as well as in and to:

- a) all improvements and modifications to any of the Inventions; and
- b) all other patent applications, patents, utility models, design registrations, other rights of exclusion, and inventors' certificates in every country or region setting forth
 - i. any or all of the Inventions, or
 - ii. any improvements or modifications to any or all of the Inventions, including all continuation, divisional, continuation-in-part (to the extent based upon prior Inventions), renewal, substitute, nonprovisional, and Convention applications based in whole or in part upon said Inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said Inventions or upon said applications,
- c) every priority right that is or may be predicated upon or arise from any of the Inventions; and
- d) the right to pursue, collect, and retain in Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the inventions and any other rights assigned by this Assignment; and
- e) any/all copyrights, trade secrets, trademarks and associated good will, including any moral rights, which may be granted on the Invention.

Assignee is hereby authorized to file patent applications in any or all countries on any or all of the Inventions in the name of Assignor or in the name of Assignee or otherwise as Assignee may deem advisable, under the Paris Convention and/or Patent Cooperation Treaty or otherwise; the Commissioner of Patents of the United States Patent and Trademark Office (and officials of other countries whose duty it is to issue patents) being hereby authorized to issue or transfer all Letters Patent to Assignee in accordance with this Assignment.

Assignor covenants that he has the full power and authority to make this Assignment and that such assigned rights are not encumbered by any grant, pledge, license, or any other rights previously given. Further, Assignor represents and warrants that this assignment does not infringe on the rights of any person and neither he nor his current or past employer has any right or claim to the inventions in any manner, whatsoever and undertakes to furnish a declaration in a form as requested by Assignee. Assignor will do all acts reasonably serving to ensure that the Inventions shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by Assignor if this Assignment had not been made, and particularly to execute and deliver to Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by Assignee, to furnish Assignee with all facts relating to any of the Inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody any of the Inventions, and to testify in any proceedings relating to any of the Inventions.

Title: An Unsupervised Approach to Assign ICD Codes to Clinical Text and to Rank the Code against the Letter

IDF Number: IDF-001331

Inventor(s): Suman Roy, Amit Kumar, Sourabh Kumar Bhattacharjee, Shashi Kumar, William Scott Paka, Tanmoy Chakraborty

Assignor hereby grants Assignee, its successors, legal representatives, and assigns the right to insert in this Assignment any further identification (including, but not limited to Attorney Docket Number, and patent application serial number, date, and other information) that may be necessary or desirable for valid recordation of this Assignment.

This Assignment is deemed to be effective at least as early as the earliest filing date listed above and/or associated with any of the inventions. To the extent that Assignor has previously assigned, to Assignee, any right, title, or interest in the inventions, this document shall be interpreted as confirming the validity of such prior assignment(s).

Tanmoy Chakraborty
Tanmoy Chakraborty Date
Aadhaar/PAN APTPC34568
tanmoy@iitd.ac.in

37/02/2021

Souravi Halder
Signature of Witness #1

17/02/2021
Date

SOURAVI HALDER
Printed Name of Witness #1

DERATYOTI BERA
Signature of Witness #2

17/02/2021
Date

DERATYOTI BERA
Printed Name of Witness #2

William Scott Paka
Aadhaar/PAN: DDEPP2592K
william18026@iitd.ac.in

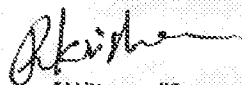
13/2/20
Date

PAKA SATYAM
Signature of Witness #1 (P. SATYAM)

13/2/20
Date

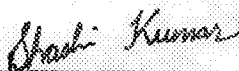
PAKA SATYAM
Printed Name of Witness #1

Title: An Unsupervised Approach to Assign ICD Codes to Clinical Text and to Rank the Code against the Latter
IDF Number: IDF-001331
Inventor(s): Suman Roy, Amit Kumar, Sourabh Kumar Bhattacharjee, Shashi Kumar, William Scott Paka, Tanmoy Chakraborty


Signature of Witness #2

Date 13/2/20

R. Krishna Veni
Printed Name of Witness #2

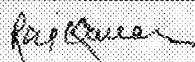


Shashi Kumar

Aadhaar/PAN: EYJPK2722J

05 Feb, 2021
Date

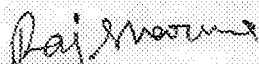
Signature of Witness #1



Date 5/2/21

Printed Name of Witness #1

Raj Kumar



Signature of Witness #2

05/02/21
Date

Raj Sharma
Printed Name of Witness #2

Title: An Unsupervised Approach to Assign ICD Codes to Clinical Text and to Rank the Code against the Latter
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