503547380 10/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3594007

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SWARUN SURESH KUMAR	09/18/2015
DINA KATABI	09/18/2015

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14579232

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NAME OF SUBMITTER:	GRACI SMITH
SIGNATURE:	/Graci Smith/
DATE SIGNED:	10/30/2015

Total Attachments: 2

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> **PATENT** REEL: 036921 FRAME: 0158 503547380

JOINT ASSIGNMENT Attorney Docket No.: 70009-D36001

ASSIGNMENT

For valuable consideration, we, Swarun Suresh Kumar of 550 Memorial Drive, 21E1, Cambridge, MA 02139, Dina Katabi of 32 Vassar Street, Room 32-G936, Cambridge MA 02139, hereby assign to Massachusetts Institute of Technology, a corporation of Massachusetts. having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SYNTHETIC APERTURE RADAR BETWEEN INDEPENDENT WIRELESS NODES, filed December 27, 2013, and assigned U.S. Serial Number 61/921,127, LOCALIZATION WITH NON-SYNCHRONOUS EMISSION AND MULTIPATH TRANSMISSION, filed December 22, 2014, and assigned U.S. Serial Number 14/579,232 and LOCALIZATION WITH NON-SYNCHRONOUS EMISSION AND MULTIPATH TRANSMISSION, filed December 22, 2014, and assigned Serial Number PCT/US2014/071891, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

> PATENT REEL: 036921 FRAME: 0159

Date: 18 SEP 2015	som (cmay)	The second second
	Swarun Suresh Kumar	
STATE OF MACCILLES SS.		The same of the sa
the State of Kumar personally known to me (or proved to me person whose name is subscribed to this Assignate in his authorized capacity and that by his entity upon behalf of which he acted, executed in the subscribed to the subs	there personally appeared Swarun Su e on the basis of satisfactory evidence nment, who acknowledged having exe signature on this Assignment, the pers	iresh e) to be the cuted the
WITNESS my hand and official seal.		
DEBORAH A. LEHTO Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires May 20, 2022	Notary Public	The second secon
Date: 9/18 (2015	Dina Katabi	
COUNTY OF Mckille Sex) SS.		
the State of MYAT who are is subscribed to this Assignment, who are authorized capacity and that by his signature of behalf of which he acted, executed this Assignment.	there personally appeared Dina Kata satisfactory evidence) to be the person sknowledged having executed the sam in this Assignment, the person or the e	bi personally whose e in his
WITNESS my hand and official seal.		
DEBORAH A. LEHTO Notary Public COMMONWEATH OF MASSACHUSETTS My Commission Expires May 20, 2022	Notary Public	

PATENT REEL: 036921 FRAME: 0160

RECORDED: 10/30/2015