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Attorney Docket No. 058501.00080 To the Director of the U.S. Patent and Trademark Office Please record the attached documents or the new address(es) below			
1. Name of conveying party(ies) 1. Anthony EPHREMIDES 2. Gigla JANASHIA (deceased), by Levan JANASHIA as Legal Representative 3. Lasha EPHREMIDZE 4. Edem LAGVILAVA Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s): 1) December 27, 2010 2) December 29, 2010 3. December 29, 2010 4) December 29, 2010 Assignment	2. Name and address of receiving party(ies): Name: UNIVERSITY OF MARYLAND Internal Address: Office of Technology Commercialization Street Address: 0133 Cole Student Activities Bldg. City: College Park State: MD Country: Zip: 20742 Additional name(s) & address(es) attached? ☐ Yes ☑ No		
4. Application or patent number(s): A. Patent Application No.(s) 12/989,736 Additional numbers attached?	This document is being filed together with a new application. B. Patent No.(s) Yes No		
Name and address to whom correspondence concerning document	6. Total number of applications and patents involved:		
should be mailed: Name: Squire Sanders & Dempsey (US) LLP Internal Address: Street Address: 8000 Towers Crescent Drive, 14 th Floor City: Vienna State: Virginia Zip: 22182-6212 Phone Number: (703) 720-7800 Fax Number: (703) 720-7802 Email Address: ipgeneraltyc@ssd.com	One 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed. Check No. None required (government interest not affecting title) 8. Payment Information Deposit Account Number: 50-2222 Authorized User Name: Peter Flanagan		
	January 12, 2011 Date al number of pages including cover sheet, attachments, documents: 4		

SQUIRE SANDERS & DEMPSEY L.L.P.

Docket No.	058501.00080	
		سر مسسس کی گاگ کیسٹ کے مسسس کس

WORLDWIDE INVENTION ASSIGNMENT For good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by Husert UNIVERSITY OF MARYLAND ASSIGNEE'S Office of Technology Commercialization Name(s) 0133 Cole Student Activities Bldg. Address(es)] College Park, MD 20742 (hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled fflitte of MATRIX SPECTRAL FACTORIZATION FOR DATA COMPRESSION, FILTERING, Invention] WIRELESS COMMUNICATIONS, AND RADAR SYSTEMS for which the following applications were filed: [*][the assignment is being filed 12/989,736 after the filling of the *Filed on: 26 October 2010 Application application, this Number(s) section musi be completed (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial number and/or filing date hereon, when known) and all Letters Patent of any country in the world to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted. The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient. The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding. EQF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). [Signature(s) Anthony EPHREMIDES of Assignor(s)] (TYPE NAME) (figla JANASHIA (deceased), by Levan JANASHIA as Legal Representative (SIGNATURE) (TYPE NAME) (DATE) Lasha EPHREMIDZE (DATE) (TYPE NAME) (SIGNATURE) Edem LAGVILAVA (DATE) (TYPE NAME) (SIGNATURE)

> PATENT REEL: 025625 FRAME: 0215

SOUTRE SANDERS & DEMPSEY L.L.P.

Docket No. 058501.00080

WORLDWIDE INVENTION ASSIGNMENT

For good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR)

[]nsen ASSIGNEE's Name(s) Address(es)]

UNIVERSITY OF MARYLAND

Office of Technology Commercialization

0133 Cole Student Activities Bldg.

College Park, MD 20742-

by

(hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

[Title of Invention)

MATRIX SPECTRAL FACTORIZATION FOR DATA COMPRESSION, FILTERING,

WIRELESS COMMUNICATIONS, AND RADAR SYSTEMS

for which the following applications were filed:

["If the assignment is being rited after the filling of the application, this section must be completed

*Filed on: 26 October 2010

(SIGNATURE)

Application

12/989,736

Number(s)

(Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of any country in the world to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signature(v) of Assignar(s)]

Anthony EPHREMIDES (TYPE NAME)

(DATE)

Gigla JANASHIA (deceased), by Levan JANASHIA us

Legal Representative (TYPE NAME)

Lasha EPHREMIDZE (TYPE NAME)

Edem LAGVILAVA (TYPF NAME)

PATENT REEL: 025625 FRAME: 0216

RECORDED: 01/12/2011