

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4658464

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SHLOMO SELIM RAKIB	10/25/2017
RECEIVING PARTY DATA		
Name:	GAINSPEED, INC.	
Street Address:	160 GIBRALTAR COURT	
City:	SUNNYVALE	
State/Country:	CALIFORNIA	
Postal Code:	94089	
PROPERTY NUMBERS Total: 7		
Property Type	Number	
Patent Number:	9692513	
Application Number:	14482632	
Patent Number:	9762288	
Application Number:	14170579	
Patent Number:	9781453	
Application Number:	14579707	
Patent Number:	9692612	
CORRESPONDENCE DATA		
Fax Number:	(714)453-9824	
<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:	(714)453-9824	
Email:	docketing@lozaip.com, ipsnarocp@nokia.com	
Correspondent Name:	LOZA & LOZA LLP	
Address Line 1:	305 NORTH SECOND AVE., #127	
Address Line 4:	UPLAND, CALIFORNIA 91786-6064	
ATTORNEY DOCKET NUMBER:	ALU-999 (GAINSPEED)	
NAME OF SUBMITTER:	JESSICA W. SMITH	
SIGNATURE:	/Jessica W. Smith/	
DATE SIGNED:	10/25/2017	

Total Attachments: 2

source=Rakib-Gainspeed_ExecutedAssignment#page1.tif

source=Rakib-Gainspeed_ExecutedAssignment#page2.tif

ASSIGNMENT AND AGREEMENT

For value received, I hereby sell, assign and transfer GAINSPPEED, INC., 160 Gibraltar Court, Sunnyvale, California USA, 94089, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to the certain Inventions (the "Inventions") listed on Schedule A attached hereto, and all the rights and privileges in said Inventions, and under any and all Letters Patent that may be granted in the United States for said Inventions;

I also concurrently hereby sell, assign and transfer to GAINSPPEED, INC., the entire right, title and interest in and to said Inventions for all countries foreign to the United States, including all rights of priority arising from the Inventions, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said Inventions.

I authorize GAINSPPEED, INC., to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of GAINSPPEED, INC., to apply for patent or other form of protection for said Inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said Inventions be issued to GAINSPPEED, INC., in the United States and in all countries foreign to the United States, or to such nominees as GAINSPPEED, INC., may designate.

I agree that, when requested, I shall, without charge to GAINSPPEED, INC., but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said Inventions, patents, or other forms of protection.

Signature:  Date: 10/25/17
Shlomo Selim Rakib

SCHEDULE A

SERIALNO	FILING DATE	PATENTNO	ISSUE DATE	TITLE
15/089,504	04/02/2016	9,692,513	6/27/2017	HFC CABLE SYSTEM WITH SHADOW FIBER AND COAX FIBER TERMINALS
14/482,632	09/10/2014			METHODS OF ADAPTIVE CANCELLING AND SECONDARY COMMUNICATIONS CHANNELS FOR EXTENDED CAPABILITY HFC CABLE SYSTEMS
14/806,591	07/22/2015	9,762,288	9/12/2017	EFFICIENT BANDWIDTH UTILIZATION METHODS FOR CATV DOCSIS CHANNELS AND OTHER APPLICATIONS
14/170,579	02/01/2014			DISTRIBUTED CABLE MODEM TERMINATION SYSTEM WITH SOFTWARE RECONFIGURABLE MAC AND PHY CAPABILITY
14/834,346	08/24/2015	9,781,453	10/3/2017	METHOD OF TRANSFORMING HFC CATV ANALOG FIBER TRANSMISSION TO DIGITAL FIBER TRANSMISSION
14/579,707	12/22/2014			VIRTUAL CONVERGED CABLE ACCESS PLATFORMS FOR HFC CABLE NETWORKS
15/083,215	03/28/2016	9,692,612	6/27/2017	DISTRIBUTED CCAP CABLE MODEM TERMINATION SYSTEM

END SCHEDULE A