

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT7961103

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ERRONEOUS APPLICATION NUMBER 17/795,475 previously recorded on Reel 060628 Frame 0679. Assignor(s) hereby confirms the ASSIGNOR: TANBIR HAQUE TO ASSIGNEE: IDAC HOLDINGS, INC..
<b>RESUBMIT DOCUMENT ID:</b>	507742160

**CONVEYING PARTY DATA**

Name	Execution Date
TANBIR HAQUE	06/29/2022

**RECEIVING PARTY DATA**

<b>Name:</b>	IDAC HOLDINGS, INC.
<b>Street Address:</b>	200 BELLEVUE PARKWAY, SUITE 300
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19809

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	17795474

**CORRESPONDENCE DATA****Fax Number:**

*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.*

**Email:** docketing@interdigital.com  
**Correspondent Name:** PATENT DOCKETING  
**Address Line 1:** 200 BELLEVUE PARKWAY  
**Address Line 2:** SUITE 300  
**Address Line 4:** WILMINGTON, DELAWARE 19809

<b>ATTORNEY DOCKET NUMBER:</b>	2020P00014WOUS
<b>NAME OF SUBMITTER:</b>	GWEN L. BREDOW
<b>SIGNATURE:</b>	/Gwen L. Bredow/
<b>DATE SIGNED:</b>	05/18/2023

**Total Attachments: 8**

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**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1  
Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TANBIR HAQUE	06/29/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IDAC HOLDINGS, INC.
<b>Street Address:</b>	200 BELLEVUE PARKWAY, SUITE 300
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19809
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	<u>17795475</u> <u>17795474</u>
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<b>Phone:</b>	3022813600
<b>Email:</b>	docketing@interdigital.com
<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>	

<b>Correspondent Name:</b>	PATENT DOCKETING
<b>Address Line 1:</b>	200 BELLEVUE PARKWAY
<b>Address Line 2:</b>	SUITE 300
<b>Address Line 4:</b>	WILMINGTON, DELAWARE 19809
<b>ATTORNEY DOCKET NUMBER:</b>	2020P00014WOUS
<b>NAME OF SUBMITTER:</b>	GWEN L. BREDOW
<b>Signature:</b>	/Gwen L. Bredow/
<b>Date:</b>	07/26/2022
<b>Total Attachments: 4</b>	
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<b>RECEIPT INFORMATION</b>	
<b>EPAS ID:</b>	PAT7452560
<b>Receipt Date:</b>	07/26/2022

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Docket No.: **2020P00014WO**

**CONFIRMATORY PATENT ASSIGNMENT**

WHEREAS, I/We, **Tanbir HAQUE and Ravikumar PRAGADA** (“Assignor(s)”), previously executed a Patent Assignment last dated **March 4, 2021**, (“Patent Assignment”), with respect to, and are inventors of certain inventions or improvements set forth in **International** Patent Application **PCT/US2021/014660**, filed **January 22, 2021**, entitled:

**METHOD AND APPARATUS FOR ADAPTIVE INDIRECT CARRIER MODULATION**  
 (“Patent Application”);

WHEREAS, as a result of the Patent Assignment, **IDAC Holdings, Inc.**, a **Delaware** corporation having a place of business at **200 Bellevue Parkway, Suite 300, Wilmington, DE 19809** (“Assignee”), previously acquired the entire right, title and interest in, to and under the Patent Application; the inventions, discoveries and improvements disclosed or claimed therein (“Inventions”); and any and all patents, certificates of invention, utility models and other forms of protection which may be granted thereon or as a result thereof in any and all countries (“Patents”); and

WHEREAS, the Patent Assignment contains signature informalities and it is desirable to correct such informalities and memorialize and confirm the prior transfer of the Inventions, Patent Applications and Patents.

NOW, THEREFORE, for good and valuable consideration previously received, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, I/we, the undersigned Assignor(s), hereby confirm that Assignor(s) intended to and have previously sold, assigned, transferred, and conveyed to Assignee, our entire right, title and interest in and to any and all of the following:

- i. the Patent Application, the Inventions and the Patents, for the United States, its possessions and territories and all foreign countries and territories;
- ii. the rights of priority created by the Patent Application and the Patents under any treaty relating thereto, including the rights to apply for Patents covering the Inventions in any and all countries;
- iii. any and all patent applications and Patents resulting from the Patent Application or covering the Inventions in any and all countries, including provisionals, non-provisionals, divisionals, continuations, continuations-in-part, renewals, substitutions, extensions, reissues and re-examinations thereof;
- iv. all past, present and future causes of action and enforcement rights, whether currently pending, filed or otherwise, in connection with the Patent Application, the Inventions, the Patents, or the patents and patent applications resulting therefrom, including without limitation, all rights to sue for any past, present or future infringements thereof, including the rights to license and to collect and receive any damages, royalties, injunctive relief, and/or any other settlements or remedies for such infringements, and

CONFIRMATORY PATENT ASSIGNMENT

Docket No.: **2020P00014WO**

including any provisional rights having arisen from any publication of the Patent Application or any patent application resulting therefrom;

the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor(s), if this Confirmatory Patent Assignment had not been made.

AND for the aforesaid consideration Assignor(s) hereby covenant, agree and undertake to execute and deliver to Assignee, its successors, assigns, nominees, or legal representatives, whenever requested and without undue delay, all patent applications, assignments, oaths and any other papers which Assignee may deem necessary or desirable for securing to or maintaining for the Assignee the Patent Application, the Patents and the Inventions hereby assigned, and the undersigned Assignor(s) agree to communicate to Assignee or to its nominee all known facts respecting the Patent Application, the Patents and the Inventions, to testify in any legal or administrative proceeding related thereto, and generally to cooperate with and do everything possible to aid Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its own benefit proper patent protection for the Inventions in any and all countries, all without further compensation to the undersigned Assignor(s).

AND Assignor(s) hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to Assignee, as Assignee of the entire right, title and interest, any and all Patents for the Inventions that may be issued and granted on or as a result of the Patent Application, in accordance with the terms of this Confirmatory Patent Assignment.

AND Assignor(s) hereby covenant that Assignor(s) have full right to convey the entire interest herein assigned, and that Assignor(s) have not executed and will not execute any agreement in conflict herewith.

IN WITNESS WHEREOF, we/I have hereunto set our hands and seals.

CONFIRMATORY PATENT ASSIGNMENT  
Docket No.: **2020P00014WO**

29 June 2022

\_\_\_\_\_  
Date

DocuSigned by:  
*Tanbir HAQUE*  
6E2113B2001A4FE  
\_\_\_\_\_  
**Tanbir HAQUE**

CONFIRMATORY PATENT ASSIGNMENT  
Docket No.: **2020P00014WO**

\_\_\_\_\_  
Date

\_\_\_\_\_  
**Ravikumar PRAGADA**