

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5662090

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALI CIRIK	07/31/2019
ESMAEL DINAN	08/02/2019
HUA ZHOU	07/31/2019
HYOUNGSUK JEON	08/05/2019
ALIREZA BABAEI	07/31/2019
KYUNGMIN PARK	07/31/2019
RECEIVING PARTY DATA	
Name:	COMCAST CABLE COMMUNICATIONS, LLC
Street Address:	1701 JFK BOULEVARD
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19103
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16537027
CORRESPONDENCE DATA	
Fax Number:	(202)824-3001
<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:	202-824-3000
Email:	BWPTOPAT@bannerwitcoff.com, ananderson@bannerwitcoff.com
Correspondent Name:	BANNER & WITCOFF , LTD
Address Line 1:	1100 13TH STREET, N.W.
Address Line 2:	SUITE 1200
Address Line 4:	WASHINGTON, D.C. 20005-4051
ATTORNEY DOCKET NUMBER:	007412.04593\US
NAME OF SUBMITTER:	ANTONIETTA ANDERSON
SIGNATURE:	/Antonietta Anderson/
DATE SIGNED:	08/09/2019

Total Attachments: 3

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ASSIGNMENT

Attorney Docket No.: **007412.04578 (18-1077P)**
Serial Number: **62/716,817**
Filing Date: **August 9, 2018**
Inventors: **Ali Cirik et al.**

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assign to:

COMCAST CABLE COMMUNICATIONS, LLC

having a place of business at 1701 JFK Boulevard, Philadelphia, PA 19103, its successors and assigns, the entire right, title and interest in the invention or improvements (including but not limited to all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide; all extensions of such applications; and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto) of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

RESOURCE MANAGEMENT IN BEAM FAILURE RECOVERY PROCEDURE

and identified as Attorney Docket No. **007412.04578 (18-1077P)** in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements (including but not limited to all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide; all extensions of such applications; and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto), and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

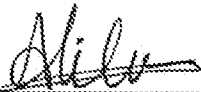
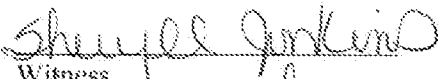
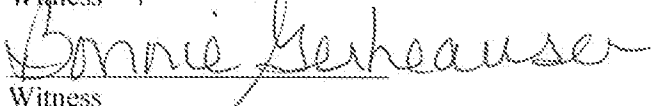



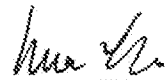
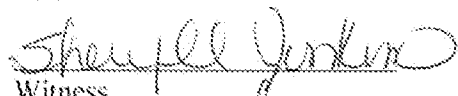
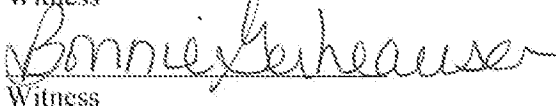
The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

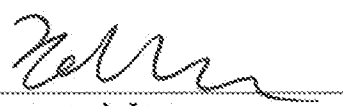
The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements (including but not limited to all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide; all extensions of such applications; and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto) and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations and without additional charge the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide, all extensions of such

applications, and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto, for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations and without additional charge the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of and without additional charge to said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date:	<u>07/31/2019</u>	<u></u> Ali Cirik
Date:	<u>7/31/2019</u>	<u></u> Witness
Date:	<u>7/31/2019</u>	<u></u> Witness
Date:	<u>7/2/2019</u>	<u></u> Esmal Dinan
Date:	<u>8/2/2019</u>	<u></u> Witness
Date:	<u>8/2/2019</u>	<u></u> Witness
Date:	<u>07/31/2019</u>	<u></u> Hua Zhou
Date:	<u>7/31/2019</u>	<u></u> Witness
Date:	<u>7/31/2019</u>	<u></u> Witness

Date: 8/5/2019


Hyongsuk Jeon

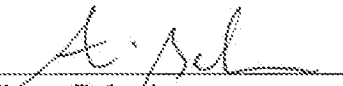
Date: 8/5/2019

Shayell Jenkins
Witness

Date: 8/5/2019

Bonnie Gerheuser
Witness

Date: 7/31/2019


Alireza Babaei

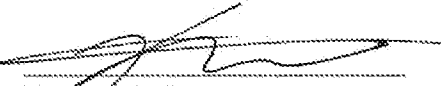
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