

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4980859

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KIRAN CHITTELLA	05/23/2018
BHARANI GOPINATH	05/27/2018
RUEJU NAMATH	05/22/2018
JAYAPRAKASH RAMARAJ	05/22/2018
ARUNODAY THAMMINENI	05/23/2018
VARUNKUMAR TRIPATHI	05/22/2018
RECEIVING PARTY DATA	
Name:	SLING MEDIA PVT LTD.
Street Address:	SALARPURIA SATTVA EMINENCE, GROUND FLOOR, NO. 239
Internal Address:	SY NO. 174/175&176, OUTER RING ROAD, MARATHAHALLI
City:	BANGALURU
State/Country:	INDIA
Postal Code:	560037
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15859284
CORRESPONDENCE DATA	
Fax Number:	(480)385-5061
<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:	480-385-5060
Email:	ipdept@dish.com
Correspondent Name:	LKGLOBAL (DISH TECHNOLOGIES L.L.C.)
Address Line 1:	7010 E. COCHISE ROAD
Address Line 4:	SCOTTSDALE, ARIZONA 85253
ATTORNEY DOCKET NUMBER:	066.0487US
NAME OF SUBMITTER:	BRETT A. CARLSON
SIGNATURE:	/BRETT A. CARLSON/
DATE SIGNED:	05/29/2018

Total Attachments: 4

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ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

WHEREAS, Kiran Chittella, Bharani Gopinath, Rueju Namath, Jayaprakash Ramaraj, Arunoday Thammineni and Varunkumar Tripathi (hereinafter, collectively the "Assignor") have jointly invented and/or discovered certain new and useful invention, process, machine, manufacture, or composition of matter, or any new and useful improvement in an invention as described in an application for Letters Patent entitled **"IMPROVED SEEK WITH THUMBNAIL GENERATION & DISPLAY DURING PLACESHIFTING SESSION"** filed in and/or with the United States Patent and Trademark Office on December 29, 2017, and which has been assigned Application Serial Number 15/859,284 and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

WHEREAS, Sling Media PVT Ltd., a corporation organized and existing under the laws of India and having a principal place of business at c/o Sling Media Pvt. Ltd., Salarpuria Sattva Eminence, Ground Floor, No. 239, SY No. 174/175 & 176, Outer Ring Road, Marathahalli, Bangaluru 560037, India (hereinafter, the "Assignee") desires to acquire all rights, title and interest in and to the Invention, including, but not limited to, all rights, title and interest in and to past, present and future damages, injunctive relief and to any and all other additional rights, title, interest, relief and/or remedies granted by any legislative, judicial, quasi-judicial, administrative or other body, or otherwise; and

WHEREAS, Assignor, to the extent they own any right, title and interest in and to the Invention are desirous of assigning any and all such rights, title and/or interest to Assignee.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over unto Assignee and its legal representatives, successor and assigns, the entire right, title and interest, including any all rights in and/or to past, present and future damages, injunctive relief and/or any other remedy and relief granted by a legislative, judicial, quasi-judicial or administrative body, in and to said Invention, said application, for any and all non-provisional, national, international, foreign, and regional applications corresponding and/or claiming priority thereto, any divisions, continuations, continuation-in-parts, reissues, reexaminations, renewals, and extensions thereof, and the Letters Patent, both foreign and domestic, that may or shall issue thereon, and does request the Commissioner of Patents to issue said Letters Patent to the Assignee, consistent with the terms of this agreement.

Assignor hereby authorizes Assignee to insert in this instrument the filing date and Application Serial Number in the above fields if not already present at the time of execution of this instrument.

Assignor hereby declares that he/she is the sole inventor (if only one inventor is named herein) or an original, first and joint inventor (if plural inventors are named herein) of the Invention.

UPON SAID CONSIDERATION, Assignor hereby covenants and agrees with Assignee that they will not execute any writing or do any act whatsoever conflicting with these presents, and agrees that, when requested, he/she will, without charge to Assignee but at its expense, execute such

additional assignments, declarations and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, renewal, reissued or extended Letters Patent of the United States Patent and Trademark Office, or of any and all foreign countries, on said invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

Assignor agrees that he/she will communicate to Assignee or its representatives any facts known to Assignor respecting said inventions within a reasonable time of discovering or coming into possession of the same.

Assignor authorizes and empowers Assignee, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in Assignor's name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

Assignor hereby consent that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of Assignee or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

Assignor covenants with Assignee, its successors, assigns, legal representatives, and nominees, that to the best of Assignor's knowledge the right, title and interest herein conveyed are free and clear of any encumbrance, and that Assignor has the full right to convey the same as herein expressed.

This Agreement and Assignment supersedes all other assignments, agreements and addendums related to the above-identified application.

After this Assignment has been recorded, please return it to:

Attn: Max S. Gratton
Legal Department
DISH Technologies L.L.C.
9601 S. Meridian Blvd.
Englewood, CO 80112

JOINT

Inventor (1): Kiran Chittella
Name of inventor

CH Kiran
(Signature in Full)

23-May-2018
Date

Witness: PREETHAM R KOTIAN
Witness Name

[Signature]
(Witness Signature)

23.05.2018
Date

JOINT

Inventor (2): Bharani Gopinath
Name of inventor

BL VG
(Signature in Full)

27-05-2018
Date

Witness: PRADEEP BHATT
Witness Name

[Signature]
(Witness Signature)

27-05-2018
Date

JOINT

Inventor (3): Rueju Namath
Name of inventor

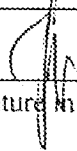
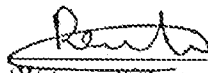
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(Signature in Full)

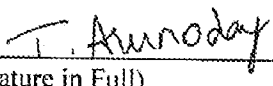
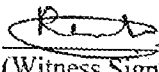
22-5-2018
Date

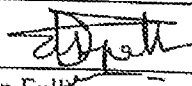
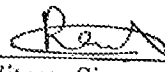
Witness: PREETHAM R KOTIAN
Witness Name

[Signature]
(Witness Signature)

22.5.2018
Date

JOINT	
Inventor (4): <u>Javaprakash Ramaraj</u> Name of inventor	<u></u> (Signature in Full)
<u>22 MAY. 2018</u> Date	
Witness: <u>PREETHAM R KOTIAN</u> Witness Name	<u></u> (Witness Signature)
<u>22 MAY. 2018</u> Date	

JOINT	
Inventor (5): <u>Arunoday Thammineni</u> Name of inventor	<u></u> (Signature in Full)
<u>23 May 2018</u> Date	
Witness: <u>PREETHAM R KOTIAN</u> Witness Name	<u></u> (Witness Signature)
<u>23 May - 2018</u> Date	

JOINT	
Inventor (6): <u>Varunkumar Tripathi</u> Name of inventor	<u></u> (Signature in Full)
<u>22 May 2018</u> Date	
Witness: <u>PREETHAM R KOTIAN</u> Witness Name	<u></u> (Witness Signature)
<u>22 MAY. 2018</u> Date	