PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
MINSUK HEO	03/23/2021	
ELIZABETH O. BRATT	03/23/2021	
PRAFUL CHANDRA MANGALATH	03/25/2021	
ATUL KUMAR	03/23/2021	
NIDHI RAJSHREE	03/23/2021	

RECEIVING PARTY DATA

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Street Address:	1155 COLEMAN AVENUE
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PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	17214462			

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NAME OF SUBMITTER:	DOHM CHANKONG
SIGNATURE:	/Dohm Chankong/
DATE SIGNED:	11/12/2021

Total Attachments: 2

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned inventors: **Minsuk HEO, Elizabeth O. BRATT, Praful Chandra MANGALATH, Atul KUMAR and Nidhi RAJSHREE**, the undersigned hereby sell and assign to **Roku, Inc.**, a corporation formed under the laws of the State of Delaware, whose mailing address is 1155 Coleman Avenue, San Jose, California 95110 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a)	in	the	invention(s)	known a	s DYN	AMIC	DOMAI	N-ADAPTEI	D AUTC	MATIC
	SP	PEE	CH RECOG	SNITION	SYSTE	EM for v	vhich an app	plication(s) for	patent in t	the United
	Sta	ites c	of America ha	s been exe	cuted by	the und	ersigned an	d has a filing	date or a 3	71(c) date
	of		(also kı	nown as U	nited St	ates Ap	plication N	o), in ar	ny and all
	app	olica	tions thereon,	in any and	all Lette	ers Pater	nt(s) therefo	r, and		

- (b) in any and all application(s) that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all invention(s) described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the undersigned inventors had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate

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with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with **CUSTOMER NUMBER** 176536 the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the dates opposite the undersigned names.

	Date:	Signature of Inventor:		Name:
1.	3/23/2021	/ Minsuk Heo		Minsuk HEO
2.	3/23/2021	Elizabeth O. Bratt		Elizabeth O. BRATT
3.	3/25/2021	1 80/12		Praful Chandra MANGALATH
4.	3/23/2021	1 AUT	/	Atul KUMAR
5.	3/23/2021	1 Mdhi Rayshree	/	Nidhi RAJSHREE