

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6819711

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL AT REEL/FRAME NO. 49332/0349	
CONVEYING PARTY DATA		
Name		Execution Date
MORGAN STANLEY SENIOR FUNDING, INC.		07/16/2021
RECEIVING PARTY DATA		
Name:	SLACK TECHNOLOGIES, INC.	
Street Address:	500 HOWARD STREET	
City:	SAN FRANCISCO	
State/Country:	CALIFORNIA	
Postal Code:	94105	
PROPERTY NUMBERS Total: 110		
Property Type	Number	
Application Number:	62408670	
Application Number:	62500451	
Application Number:	15604584	
Application Number:	15604589	
Patent Number:	9940394	
Application Number:	62535082	
Application Number:	62544204	
Application Number:	62508952	
Application Number:	62547605	
Application Number:	62554952	
Application Number:	62556606	
Application Number:	62572181	
Application Number:	62599482	
Application Number:	62564045	
Patent Number:	10229204	
Patent Number:	10229205	
Application Number:	62712047	
Application Number:	62703359	
Application Number:	62680507	
Application Number:	62780067	

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Property Type	Number
Application Number:	15730146
Application Number:	15655634
Application Number:	15816925
Application Number:	15655652
Application Number:	15655981
Application Number:	15730044
Application Number:	15782680
Application Number:	15782678
Application Number:	15861611
Application Number:	15879274
Application Number:	15879253
Application Number:	15783647
Application Number:	15839705
Application Number:	15844002
Application Number:	15853376
Application Number:	15844094
Application Number:	15959448
Application Number:	15949039
Application Number:	15894821
Application Number:	15988787
Application Number:	15978013
Application Number:	15977799
Application Number:	15958484
Application Number:	15963636
Application Number:	15962388
Application Number:	15980494
Application Number:	15989038
Application Number:	15963724
Application Number:	16010891
Application Number:	62681578
Application Number:	16010036
Application Number:	15990454
Application Number:	15983674
Application Number:	62703820
Application Number:	62703079
Application Number:	62712121
Application Number:	62674491
Application Number:	62622654

Property Type	Number
Application Number:	16049175
Application Number:	62701187
Application Number:	62712013
Application Number:	16165738
Application Number:	62740208
Application Number:	62702986
Application Number:	62702985
Application Number:	16101130
Application Number:	16206652
Application Number:	16206578
Application Number:	62729180
Application Number:	16201515
Application Number:	62753200
Application Number:	16158383
Application Number:	62776651
Application Number:	62776921
Application Number:	16219603
Application Number:	16219643
Application Number:	16219605
Application Number:	16201870
Application Number:	16176851
Application Number:	16176883
Application Number:	16177184
Application Number:	62755691
Application Number:	16177039
Application Number:	16206553
Application Number:	16206542
Application Number:	16221225
Application Number:	16263799
Application Number:	16263804
Application Number:	16263691
Application Number:	16263969
Application Number:	16263753
Application Number:	16264062
Application Number:	16263781
Application Number:	62810175
Application Number:	16399741
Application Number:	16399809

Property Type	Number
Application Number:	16398168
Application Number:	16398166
Application Number:	16366866
Application Number:	16367048
Application Number:	16367038
Application Number:	16367027
Application Number:	16397544
Application Number:	16399730
Application Number:	16399784
Application Number:	16399795
Application Number:	16399349
Application Number:	16398790
Application Number:	16264100
Application Number:	16263889

CORRESPONDENCE DATA

Fax Number: (213)891-8763

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.

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Correspondent Name: LATHAM & WATKINS LLP

Address Line 1: 355 SOUTH GRAND AVENUE

Address Line 4: LOS ANGELES, CALIFORNIA 90071-1560

ATTORNEY DOCKET NUMBER:	036608-0132
NAME OF SUBMITTER:	RHONDA DELEON
SIGNATURE:	/Rhonda DeLeon/
DATE SIGNED:	07/19/2021

Total Attachments: 13

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RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL

This **RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL**, dated as of July 16, 2021 (this “Release”), is made by MORGAN STANLEY SENIOR FUNDING, INC. (“Morgan Stanley”), as collateral agent for the Secured Parties (the “Collateral Agent”), in favor of SLACK TECHNOLOGIES, INC., a Delaware corporation (the “Grantor”). Terms used herein but not defined herein have the meanings given to such terms in the Credit Agreement (as defined below) or the Pledge and Security Agreement (as defined below), as applicable.

WITNESSETH

WHEREAS, the Grantor, the Guarantors from time to time party thereto, the Lenders and Issuing Banks from time to time party thereto, Morgan Stanley, as administrative agent, and the Collateral Agent are party to that certain Revolving Credit and Guaranty Agreement, dated as of May 30, 2019 (as amended, restated, amended and restated, supplemented, or otherwise modified from time to time, the “Credit Agreement”);

WHEREAS, the Grantor is party to that certain Pledge and Security Agreement, dated as of May 30, 2019 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Pledge and Security Agreement”) in favor of the Collateral Agent;

WHEREAS, pursuant to the Pledge and Security Agreement, the Grantor executed that certain Patent Security Agreement, dated as of May 30, 2019 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Patent Security Agreement”) and recorded with the United States Patent and Trademark Office on May 30, 2019 at Reel/Frame No. 49332/0349, pursuant to which the Grantor pledged and granted to the Collateral Agent, for its benefit and for the benefit of the Secured Parties, a continuing security interest in and Lien on all of its right, title and interest in, to and under the Patent Collateral (as defined in the Patent Security Agreement).

WHEREAS, the Grantor has requested that the Collateral Agent release its security interest in all of their right, title and interest in, to and under the Patent Collateral.

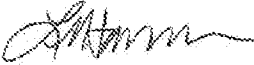
NOW, THEREFORE, in consideration of the foregoing, the Collateral Agent hereby DISCHARGES, TERMINATES and RELEASES, without recourse, representation or warranty, its security interest in and Lien on all of its right, title and interest in, to and under the Patent Collateral, including the Patents set forth in Schedule I attached hereto and incorporated herein by reference, and agrees that all the security interest in the Patent Collateral is hereby discharged, terminated and released. The undersigned hereby transfers and assigns to the Grantor, without recourse, representation or warranty, any and all right, title and interest that the Collateral Agent may have obtained in, to and under the Patent Collateral under the Pledge and Security Agreement or the Patent Security Agreement.

THIS RELEASE, ANY CLAIM, CONTROVERSY OR DISPUTE UNDER, ARISING OUT OF OR RELATING TO THIS RELEASE, WHETHER BASED IN CONTRACT (AT LAW OR IN EQUITY) OR TORT OR ANY OTHER THEORY SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK WITHOUT REGARD TO CONFLICTS OF LAW RULES THAT WOULD RESULT IN THE APPLICATION OF A DIFFERENT GOVERNING LAW. THE TERMS AND PROVISIONS OF SECTION 9.12 OF THE PLEDGE AND SECURITY AGREEMENT ARE INCORPORATED BY REFERENCE HEREIN WITH RESPECT HERETO AS IF FULLY SET FORTH HEREIN.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Collateral Agent has caused this Release to be duly executed and delivered as of the date first written above.

**MORGAN STANLEY SENIOR FUNDING,
INC., as Collateral Agent**

By: 

Name: Lisa Hanson

Title: Authorized Signatory

SCHEDULE I
to
RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL

PATENTS

PATENTS

Owner	Patent	Application/ Registration Number	Application/ Registration Date	Status
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	62/408,670	10/14/2016	Converted
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	62/500,451	5/2/2017	Expired
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	15/604,584	5/24/2017	Abandoned
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	15/604,589	5/24/2017	Abandoned
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	15/651,887 9940394	7/17/2017 4/10/2018	Granted
Slack Technologies, Inc.	CHANNELING MESSAGING COMMUNICATIONS IN A SELECTED GROUP-BASED COMMUNICATION INTERFACE	62/535,082	7/20/2017	Converted
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SEARCHABLE REAL-TIME TRANSCRIBED AUDIO AND VISUAL CONTENT WITHIN A GROUP-BASED COMMUNICATION SYSTEM	62/544,204	8/11/2017	Converted
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR A SCALABLE GROUP-BASED COMMUNICATION SYSTEM WITH A REDUCED CLIENT MEMORY FOOTPRINT REQUIREMENT	62/508,952	5/19/2017	Converted
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION INTERFACE WITH SUBSIDIARY CHANNEL-BASED THREAD COMMUNICATIONS	62/547,605	8/18/2017	Converted
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR AUTHORIZING AND AUTHENTICATING USER COMMUNICATION WITHIN AN	62/554,952	9/6/17	Converted

Owner	Patent	Application/ Registration Number	Application/ Registration Date	Status
	ENTERPRISE GROUP-BASED COMMUNICATION PLATFORM			
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ASSOCIATING AN IDENTIFIER WITH ONE OR MORE MESSAGE COMMUNICATIONS WITHIN A GROUP-BASED COMMUNICATION SYSTEM	62/556,606	9/11/17	Converted
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SHARING INTERFACE ANNOTATIONS AMONG PARTICIPATING DEVICES WITHIN A GROUP-BASED COMMUNICATION SYSTEM	62/572,181	10/13/2017	Converted
Slack Technologies, Inc.	SYSTEM, METHOD, AND APPARATUS FOR GENERATING A THIRD PARTY RESOURCE USAGE MAP IN A GROUP BASED COMMUNICATION SYSTEM	62/599,482	12/15/2017	Converted
Slack Technologies, Inc.	TRIGGERING EVENT IDENTIFICATION AND APPLICATION DIALOG VALIDATION	62/564,045	9/27/2017	Converted
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	15/949,030 10,229,204	4/9/2018 3/12/2019	Granted
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	15/949,034 10,229,205	4/9/2018 3/12/2019	Granted
Slack Technologies, Inc.	SYSTEMS, METHODS, AND APPARATUSES FOR MAINTAINING DATA GRANULARITY WHILE PERFORMING DYNAMIC GROUP LEVEL VARIANT TESTING IN A GROUP BASED COMMUNICATION SYSTEM	62/712,047	7/30/2018	Converted
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING EXTERNAL ACTIONS VIA A GROUP-BASED COMMUNICATION SYSTEM	62/703,359	7/25/2018	Converted
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION INTERFACE WITH SUBSIDIARY FILE COMMUNICATIONS	62/680,507	6/4/2018	Converted
Slack Technologies, Inc.	DYNAMIC OBJECT UPDATE SUBSCRIPTIONS BASED ON USER INTERACTIONS WITH AN INTERFACE	62/780,067	12/14/2018	Converted

PATENT APPLICATIONS

Owner	Patent	Application/ Registration Number	Application/ Registration Date	Status
Slack Technologies, Inc.	CHANNELING MESSAGING COMMUNICATIONS IN A SELECTED GROUP-BASED COMMUNICATION INTERFACE	15/730,146	10/11/2017	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR GENERATING EXTERNALLY SHARED COMMUNICATION CHANNELS	15/655,634	7/20/2017	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR GENERATING EXTERNALLY SHARED COMMUNICATION CHANNELS	15/816,925	11/17/2017	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR DIGITAL CONTENT AUDITING AND RETENTION IN A GROUP BASED COMMUNICATION REPOSITORY	15/655,652	7/20/2017	Pending
Slack Technologies, Inc.	DISPLAYING A DEFINED PREVIEW OF A RESOURCE IN A GROUP-BASED COMMUNICATION INTERFACE	15/655,981	7/21/2017	Pending
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION INTERFACE WITH SUBSIDIARY CHANNEL-BASED THREAD COMMUNICATIONS	15/730,044	10/11/17	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR AUTHORIZING AND AUTHENTICATING USER COMMUNICATION WITHIN AN ENTERPRISE GROUP-BASED COMMUNICATION PLATFORM	15/782,680	10/12/2017	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ASSOCIATING AN IDENTIFIER WITH ONE OR MORE MESSAGE COMMUNICATIONS WITHIN A GROUP-BASED COMMUNICATION SYSTEM	15/782,678	10/12/2017	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR LOW LATENCY SERVING OF INTERACTIVE ENTERPRISE ANALYTICS WITHIN AN ENTERPRISE GROUP-BASED COMMUNICATION SYSTEM	15/861,611	1/3/2018	Pending

Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR LOW LATENCY SERVING OF INTERACTIVE ENTERPRISE ANALYTICS WITHIN AN ENTERPRISE GROUP-BASED COMMUNICATION SYSTEM	15/879,274	1/24/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR LOW LATENCY SERVING OF INTERACTIVE ENTERPRISE ANALYTICS WITHIN AN ENTERPRISE GROUP-BASED COMMUNICATION SYSTEM	15/879,253	1/24/2018	Pending
Slack Technologies, Inc.	TRIGGERING EVENT IDENTIFICATION AND APPLICATION DIALOG VALIDATION	15/783,647	10/13/2017	Pending
Slack Technologies, Inc.	DEVICE VALIDATION APPARATUS AND PROTOCOL FOR A GROUP-BASED COMMUNICATION SYSTEM	15/839,705	12/12/17	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR DETERMINING ACCESS CONTROL PARAMETER DISCREPANCIES IN GROUP-BASED COMMUNICATION CHANNELS WITHIN A GROUP-BASED COMMUNICATION SYSTEM	15/844,002	12/15/17	Pending
Slack Technologies, Inc.	SYSTEM, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR GENERATING A GROUP-BASED COMMUNICATION INTERFACE HAVING IMPROVED PANES POSITIONS IN A DEFINED DISPLAY WINDOW	15/853,376	12/22/17	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR IMPROVING DATA INDEXING IN A GROUP-BASED COMMUNICATION PLATFORM	15/844,094	12/15/17	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SECURE DIRECT REMOTE SERVER COMMUNICATION OF ENCRYPTED GROUP-BASED COMMUNICATION DATA WITH SECURITY CONTROLS	15/959,448	04/23/2018	Pending
Slack Technologies, Inc.	MESSAGING SEARCH AND MANAGEMENT APPARATUSES, METHODS AND SYSTEMS	15/949,039	4/9/2018	Pending

Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SELECTIVELY GRANTING PERMISSIONS TO GROUP-BASED OBJECTS IN A GROUP-BASED COMMUNICATION SYSTEM	15/894,821	2/12/2018	Pending
Slack Technologies, Inc.	SYSTEM, METHOD, AND APPARATUS FOR MAINTAINING AND UPDATING A COMMON MESSAGE USER INTERFACE IN A GROUP BASED COMMUNICATION SYSTEM	15/988,787	5/24/2018	Pending
Slack Technologies, Inc.	SYSTEM, METHOD, AND APPARATUS FOR BUILDING AND RENDERING A MESSAGE USER INTERFACE IN A GROUP-BASED COMMUNICATION SYSTEM	15/978,013	5/11/18	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR INSTALLING THIRD PARTY APPLICATIONS REQUIRING VARIABLE HOST ADDRESS IDENTIFICATION IN A GROUP-BASED COMMUNICATION SYSTEM	15/977,799	5/11/18	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR OUTPUTTING IMPROVED AUTOSUGGESTIONS IN A GROUP-BASED COMMUNICATION SYSTEM	15/958,484	4/20/2018	Pending
Slack Technologies, Inc.	AUTOMATED LOAD DISTRIBUTION FOR A GROUP-BASED COMMUNICATION PLATFORM	15/963,636	4/26/2018	Pending
Slack Technologies, Inc.	MESSAGING INTERFACE CONFIGURED TO A RENDER GRAPHICAL SENTIMENT AND PROGRESSION INDICATOR	15/962,388	4/25/18	Pending
Slack Technologies, Inc.	METHODS, APPARATUSES AND COMPUTER PROGRAM PRODUCTS FOR DETECTING ACTIVE USAGE OF A GROUP-BASED COMMUNICATION SYSTEM AND RENDERING A TRIGGER COMPONENT TO AN ASSOCIATED INTERFACE	15/980,494	5/15/2018	Pending
Slack Technologies, Inc.	METHODS, APPARATUSES AND COMPUTER PROGRAM PRODUCTS FOR FORMATTING MESSAGES IN A MESSAGING USER INTERFACE WITHIN A GROUP-BASED COMMUNICATION SYSTEM	15/989,038	5/24/2018	Pending

Slack Technologies, Inc.	SYSTEMS AND METHODS FOR MANAGING DISTRIBUTED CLIENT DEVICE MEMBERSHIP WITHIN GROUP-BASED COMMUNICATION CHANNELS	15/963,724	4/26/18	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR METADATA SEARCH IN A GROUP-BASED COMMUNICATION PLATFORM	16/010,891	6/18/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ENCRYPTION KEY MANAGEMENT WITHIN A GROUP-BASED COMMUNICATION SYSTEM	62/681,578	6/6/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR INITIATING AND EXECUTING A GROUP BASED COMMUNICATION BROWSER SESSION AND RENDERING A GROUP BASED COMMUNICATION INTERFACE	16/010,036	6/15/2018	Pending
Slack Technologies, Inc.	MULTIPLEXING MESSAGE DISTRIBUTION WITHIN GROUP-BASED COMMUNICATION SYSTEM	15/990,454	5/25/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR A SCALABLE GROUP-BASED COMMUNICATION SYSTEM WITH A REDUCED CLIENT MEMORY FOOTPRINT REQUIREMENT	15/983,674	5/18/2018	Pending
Slack Technologies, Inc.	REDUCING TRANSMISSIONS BY SUGGESTING DIGITAL CONTENT FOR DISPLAY IN A GROUP-BASED COMMUNICATION INTERFACE	62/703,820	7/26/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR CATEGORIZING MULTIPLE GROUP-BASED COMMUNICATION MESSAGES	62/703,079	7/25/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR INSTALLING AND UPDATING THIRD PARTY APPLICATIONS REQUIRING VARIABLE HOST ADDRESS IDENTIFICATION IN A GROUP-BASED COMMUNICATION SYSTEM	62/712,121	7/30/2018	Pending
Slack Technologies, Inc.	METHODS, APPARATUSES AND COMPUTER PROGRAM PRODUCTS FOR A GROUP-BASED COMMUNICATION SYSTEM INTERACTING WITH REMOTE	62/674,491	5/21/2018	Pending

	RESOURCES FOR REMOTE DATA OBJECTS			
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR IMPLEMENTING FILTER CACHE IN A GROUP-BASED COMMUNICATION PLATFORM	62/622,654	8/24/2018	Pending
Slack Technologies, Inc.	NOTIFICATION SIGNAL ERROR DIAGNOSIS AND REPAIR	16/049,175	7/30/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR INDIVIDUAL PROFILE TELEMETRY DISCOVERY WITHIN A GROUP BASED COMMUNICATION SYSTEM	62/701,187	7/20/2018	Pending
Slack Technologies, Inc.	MULTIDEVICE USER AUTHENTICATION IN GROUP-BASED COMMUNICATION SYSTEMS	62/712,013	7/30/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR GENERATING A PREDICTED CHANNEL ADD OBJECT IN A GROUP-BASED COMMUNICATION SYSTEM	16/165,738	10/19/2018	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR CALL INITIATION BASED ON MOBILE DEVICE PROXIMITY	62/740,208	10/2/2018	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING ACTIONS BASED ON MULTI-USER CALL DETECTION	62/702,986	7/25/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR GENERATING EXTERNALLY SHARED COMMUNICATION CHANNELS	62/702,985	7/25/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SEARCHABLE REAL-TIME TRANSCRIBED AUDIO AND VISUAL CONTENT WITHIN A GROUP-BASED COMMUNICATION SYSTEM	16/101,130	8/10/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR GENERATING EXTERNALLY SHARED COMMUNICATION CHANNELS	16/206,652	11/30/2018	Pending
Slack Technologies, Inc.	MANAGING GEOGRAPHICALLY DISTRIBUTED DATA STORAGE IN A GROUP-BASED COMMUNICATION SYSTEM	16/206,578	11/30/2018	Pending

Slack Technologies, Inc.	MULTI-MODAL USER AUTHORIZATION IN GROUP-BASED COMMUNICATION SYSTEMS	62/729,180	9/10/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR GROUP-BASED COMMUNICATION INTERFACE WITH EMAIL CHANNELING	16/201,515	11/27/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SHARING INTERFACE ANNOTATIONS AMONG PARTICIPATING DEVICES WITHIN A GROUP-BASED COMMUNICATION SYSTEM	62/753,200	10/31/2018	Pending
Slack Technologies, Inc.	AUTHENTICATED SERVICE APPLICATION SESSIONS USING VISUAL AUTHENTICATION INDICIA	16/158,383	10/12/2018	Pending
Slack Technologies, Inc.	RESERVATION MANAGEMENT FOR CLIENT-INITIATED POLLING REQUESTS IN A COMMUNICATION SYSTEM	62/776,651	12/7/2018	Pending
Slack Technologies, Inc.	IMPROVED DEVELOPER TOOLS FOR A COMMUNICATION PLATFORM	62/776,921	12/7/2018	Pending
Slack Technologies, Inc.	IMPROVED DEVELOPER TOOLS FOR A COMMUNICATION PLATFORM	16/219,603	12/13/2018	Pending
Slack Technologies, Inc.	IMPROVED DEVELOPER TOOLS FOR A COMMUNICATION PLATFORM	16/219,643	12/13/2018	Pending
Slack Technologies, Inc.	DYNAMIC AND SELECTIVE OBJECT UPDATE FOR LOCAL STORAGE COPY BASED ON NETWORK CONNECTIVITY CHARACTERISTICS	16/219,605	12/13/2018	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING EXTERNAL ACTIONS VIA A GROUP-BASED COMMUNICATION SYSTEM	16/201,870	11/27/2018	Pending
Slack Technologies, Inc.	DYNAMIC OBJECT UPDATE SUBSCRIPTIONS BASED ON USER INTERACTIONS WITH AN INTERFACE	16/176,851	10/31/2018	Pending
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION INTERFACE WITH SUBSIDIARY FILE COMMUNICATIONS	16/176,883	10/31/2018	Pending

Slack Technologies, Inc.	MAINTAINING MINIMUM INTERFACE FUNCTIONALITY IN AN ABSENCE OF A PUSH BASED COMMUNICATIONS CONNECTION IN A GROUP-BASED COMMUNICATION SYSTEM	16/177,184	10/31/2018	Pending
Slack Technologies, Inc.	SYSTEMS, METHODS, AND APPARATUSES FOR MAINTAINING DATA GRANULARITY WHILE PERFORMING DYNAMIC GROUP LEVEL MULTI-VARIATE TESTING IN A GROUP BASED COMMUNICATION SYSTEM	62/755,691	11/5/2018	Pending
Slack Technologies, Inc.	DYNAMIC OBJECT UPDATE SUBSCRIPTIONS BASED ON USER INTERACTIONS WITH AN INTERFACE	16/177,039	10/31/2018	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING EXTERNAL ACTIONS VIA A GROUP-BASED COMMUNICATION SYSTEM	16/206,553	11/30/2018	Pending
Slack Technologies, Inc.	SYSTEM, METHOD, AND APPARATUS FOR GENERATING A THIRD PARTY RESOURCE USAGE MAP IN A GROUP BASED COMMUNICATION SYSTEM	16/206,542	11/30/2018	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR IMPROVING DATA INDEXING IN A GROUP-BASED COMMUNICATION PLATFORM	16/221,225	12/14/2018	Pending
Slack Technologies, Inc.	METHODS AND APPARATUSES FOR MANAGING LIMITED ENGAGEMENT BY EXTERNAL RESOURCE ENTITY WITHIN A GROUP-BASED COMMUNICATION SYSTEM	16/263,799	1/31/2019	Pending
Slack Technologies, Inc.	SEAMLESS COMMUNICATION RESOURCE TRANSITION BETWEEN COMMUNICATION SYSTEMS	16/263,804	1/31/2019	Pending
Slack Technologies, Inc.	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR IMPROVING EVENT CREATION AND MODIFICATION IN A GROUP-BASED COMMUNICATION SYSTEM	16/263,691	1/31/2019	Pending
Slack Technologies, Inc.	VALIDATING, AGGREGATING, AND MANAGING CALENDAR EVENT DATA FROM EXTERNAL CALENDAR RESOURCES WITHIN A GROUP-BASED COMMUNICATION SYSTEM	16/263,969	1/31/2019	Pending
Slack Technologies, Inc.	AGGREGATING AN EVENT OCCURRENCE FEEDBACK REPORT	16/263,753	1/31/2019	Pending

	WITHIN A GROUP-BASED COMMUNICATION SYSTEM			
Slack Technologies, Inc.	RENDERING RELATED CONTENT PRIOR TO AN EVENT IN A GROUP-BASED COMMUNICATION INTERFACE	16/264,062	1/31/2019	Pending
Slack Technologies, Inc.	METHODS, SYSTEMS, AND APPARATUSES FOR IMPROVED MULTI-FACTOR AUTHENTICATION IN A MULTI-APP COMMUNICATION SYSTEM	16/263,781	1/31/2019	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR SELECTIVELY GRANTING PERMISSIONS TO GROUP-BASED OBJECTS IN A GROUP-BASED COMMUNICATION SYSTEM	62/810,175	2/25/2019	Pending
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION SYSTEM DYNAMIC GROUP-BASED COMMUNICATION INTERFACE FOCUSING	16/399,741	4/30/2019	Pending
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION SYSTEM DYNAMIC GROUP-BASED COMMUNICATION INTERFACE FOCUSING	16/399,809	4/30/2019	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PROVIDING A CHANNEL CALENDAR IN A GROUP-BASED COMMUNICATION SYSTEM	16/398,168	4/29/2019	Pending
Slack Technologies, Inc.	METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PROVIDING A MEMBER CALENDAR IN A GROUP-BASED COMMUNICATION SYSTEM	16/398,166	4/29/2019	Pending
Slack Technologies, Inc.	EXPANDABLE DATA OBJECT MANAGEMENT AND INDEXING ARCHITECTURE FOR INTERSYSTEM DATA EXCHANGE COMPATIBILITY	16/366,866	3/27/2019	Pending
Slack Technologies, Inc.	EXPANDABLE DATA OBJECT MANAGEMENT AND INDEXING ARCHITECTURE FOR INTERSYSTEM DATA EXCHANGE COMPATIBILITY	16/367,048	3/27/2019	Pending
Slack Technologies, Inc.	EXPANDABLE DATA OBJECT MANAGEMENT AND INDEXING ARCHITECTURE FOR INTERSYSTEM DATA EXCHANGE COMPATIBILITY	16/367,038	3/27/2019	Pending

Slack Technologies, Inc.	EXPANDABLE DATA OBJECT MANAGEMENT AND INDEXING ARCHITECTURE FOR INTERSYSTEM DATA EXCHANGE COMPATIBILITY	16/367,027	3/27/2019	Pending
Slack Technologies, Inc.	MANAGING DESYNCHRONIZATION EVENT DATA STRUCTURES IN A GROUP-BASED COMMUNICATION SYSTEM	16/397,544	4/30/2019	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING PROCESSING ACTIONS UTILIZING AUTOMATICALLY GENERATED DATA OF A GROUP-BASED COMMUNICATION SYSTEM	16/399,730	4/30/2019	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING PROCESSING ACTIONS UTILIZING AUTOMATICALLY GENERATED DATA OF A GROUP-BASED COMMUNICATION SYSTEM	16/399,784	4/30/2019	Pending
Slack Technologies, Inc.	SYSTEMS AND METHODS FOR INITIATING PROCESSING ACTIONS UTILIZING AUTOMATICALLY GENERATED DATA OF A GROUP-BASED COMMUNICATION SYSTEM	16/399,795	4/30/2019	Pending
Slack Technologies, Inc.	GROUP-BASED COMMUNICATION SYSTEM AND APPARATUS CONFIGURED TO MANAGE USER-DEFINED CHANNEL LABELS ASSOCIATED WITH A PLURALITY OF GROUP-BASED COMMUNICATION CHANNELS	16/399,349	4/30/2019	Pending
Slack Technologies, Inc.	SYSTEM, METHOD, AND APPARATUS FOR MAINTAINING AND UPDATING A COMMON MESSAGE USER INTERFACE IN A GROUP BASED COMMUNICATION SYSTEM	16/398,790	4/30/2019	Pending
Slack Technologies, Inc.	SEAMLESS COMMUNICATION RESOURCE TRANSITION BETWEEN COMMUNICATION SYSTEMS	16/264,100	1/31/2019	Pending
Slack Technologies, Inc.	METHODS, SYSTEMS, AND APPARATUSES FOR IMPROVED MULTI-FACTOR AUTHENTICATION IN A MULTI-APP COMMUNICATION SYSTEM	16/263,889	1/31/2019	Pending