# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7377693

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST IN PATENTS PREVIOUSLY RECORDED AT REEL/FRAME (055479/0051)

## **CONVEYING PARTY DATA**

Name	Execution Date	
THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., AS NOTES COLLATERAL AGENT	03/29/2022	

## **RECEIVING PARTY DATA**

Name:	EMC IP HOLDING COMPANY LLC	
Street Address:	ONE DELL WAY	
City:	ROUND ROCK	
State/Country:	TEXAS	
Postal Code:	78682	
Name:	DELL PRODUCTS L.P.	
Street Address:	ONE DELL WAY	
City:	ROUND ROCK	
State/Country:	TEXAS	
Postal Code:	78682	

## **PROPERTY NUMBERS Total: 518**

Property Type	Number
Application Number:	17162807
Application Number:	17160574
Application Number:	17160540
Application Number:	17160609
Application Number:	17160597
Application Number:	17160579
Application Number:	17160519
Application Number:	17160707
Application Number:	17160629
Application Number:	17161582
Application Number:	17159393
Application Number:	17159664
Application Number:	17159578
Application Number:	17159678

**PATENT** 

REEL: 062021 FRAME: 0663

Property Type	Number
Application Number:	17160097
Application Number:	17160141
Application Number:	17159880
Application Number:	17160362
Application Number:	17159903
Application Number:	17158605
Application Number:	17158370
Application Number:	17158524
Application Number:	17158427
Application Number:	17158618
Application Number:	17158769
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Application Number:	17157492
Application Number:	17156618
Application Number:	17156606
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Application Number:	17155272
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Application Number:	17091199
Application Number:	17089801
Application Number:	17089516
Application Number:	17088192
Application Number:	17086866

#### **CORRESPONDENCE DATA**

**Fax Number:** (212)455-2502

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.

Phone: 2124552333

Email: jmull@stblaw.com

Correspondent Name: BOBBIE BURROWS

Address Line 1: 425 LEXINGTON AVENUE

Address Line 4: NEW YORK, NEW YORK 10017

ATTORNEY DOCKET NUMBER:	085706/0586
NAME OF SUBMITTER:	J. JASON MULL
SIGNATURE:	/J. Jason Mull/
DATE SIGNED:	06/10/2022

#### **Total Attachments: 54**

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# NOTICE OF TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS

This NOTICE OF TERMINATION AND RELEASE (this "Release"), dated as of March 29, 2022 (the "Effective Date"), is made by THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., in its capacity as Notes Collateral Agent (the "Agent"), with respect to the grantor parties identified on the signature page hereto (each individually, a "Grantor," collectively the "Grantors").

WHEREAS, pursuant to the Indenture, dated as of June 1, 2016 (as amended and/or supplemented to the date hereof), among the Agent, the Grantor and certain other parties thereto (the "Indenture") and that certain Security Agreement, dated as of September 7, 2016 by and among the Agent, the Grantor and certain other parties thereto (as amended, amended and restated, or otherwise modified from time to time, the "Security Agreement"), the Grantor granted to the Agent a security interest in and to certain collateral, including Patents;

WHEREAS, pursuant to the Security Agreement, the Grantor executed and delivered a Patent Security Agreement, dated as of February 25, 2021 (the "<u>Patent Security Agreement</u>"), for recordal with the United States Patent and Trademark Office;

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office on March 3, 2021 at Reel 55479 and Frame 0051;

WHEREAS, the security interest was terminated and released by the Agent on November 1, 2021, in accordance with the terms of the Indenture and the Security Agreement;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent hereby agrees as follows:

<u>Defined Terms</u>. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Patent Security Agreement or the Security Agreement, as applicable.

Release. The Agent, without recourse, representation or warranty of any kind, hereby disclaims, releases, discharges, terminates and cancels any security interest in and to the Patent Collateral, including the Patents set forth in Schedule 1 attached hereto (the "Released Patents") arising from the Security Agreement and the recordation of the Patent Security Agreement and reassigns all right, title and interest it has in the Released Patents to the Grantor.

<u>Further Assurances</u>. Promptly upon request by the Grantor from time to time, the Agent agrees to take all further actions, and provide to the Grantor and its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by the Grantor, at the Grantor's sole cost and expense, to more fully and effectively effectuate the purposes of this Release.

<u>Governing Law</u>. This Release shall be governed by and construed in accordance with the laws of the State of New York, and shall be binding on the Grantor's and the Agent's representatives, successors, assigns and transferees.

[Remainder of this page intentionally left blank]

IN WITNESS WHEREOF, the Agent has caused this Release to be executed by its duly authorized representative as of the Effective Date:

THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., not in its individual capacity but solely acting in its capacity as Agent for the Secured Parties

William

Digitally signed by William Wallace

By: Wallace

Date: 2022.02.09 09:36:11 -06'00'

Name: William Wallace Title: Vice President

REEL: 062021 FRAME: 0681

## **GRANTOR(s)**

## **EMC IP Holding Company LLC**

By:

Name: Christopher Garcia
Title: Senior Vice President &

**Assistant Secretary** 

Dell Products L.P.

Bv

Name: Christopher Garcia Title: Senior Vice President &

**Assistant Secretary** 

REEL: 062021 FRAME: 0682

# Schedule I

Owner	Application Title	Application Number	Filed Date
Dell Products L.P.	System and Method to Reduce Address Range Scrub Execution Time in Non-Volatile Dual Inline Memory Modules	17/162807	1/29/2021
Dell Products L.P.	Distributed Storage Data Reduction	17/160574	1/28/2021
Dell Products L.P.	METHOD AND SYSTEM FOR PROVIDING COMPOSABLE INFRASTRUCTURE CAPABILITIES	17/160540	1/28/2021
Dell Products L.P.	Multi-system NVMe-oF target agent	17/160609	1/28/2021
Dell Products L.P.	METHOD AND SYSTEM FOR LIMITING DATA ACCESSIBILITY IN COMPOSED SYSTEMS	17/160597	1/28/2021
Dell Products L.P.	SYSTEM AND METHOD FOR OPERATION ANALYSIS	17/160579	1/28/2021
Dell Products L.P.	SYSTEM AND METHOD FOR MANAGEMENT OF COMPOSED SYSTEMS USING OPERATION DATA	17/160519	1/28/2021
Dell Products L.P.	SYSTEM AND METHOD FOR SECURELY MANAGING RECORDED VIDEO CONFERENCE SESSIONS	17/160707	1/28/2021
Dell Products L.P.	SYSTEM AND METHOD FOR INTELLIGENT MULTI- APPLICATION AND POWER MANAGEMENT FOR MULTIMEDIA	17/160629	1/28/2021

	COLLABORATION		
Dell	APPLICATIONS SYSTEM AND	17/161582	1/28/2021
Products	METHOD FOR	17/101362	1/20/2021
L.P.	OPERATING AN		
	INTELLIGENT FACE		
	FRAMING		
	MANAGEMENT		
	SYSTEM FOR		
	VIDEOCONFERENCING		
- 4	APPLICATIONS	1747000	
Dell	Method and System for	17/159393	1/27/2021
Products L.P.	Providing a Mesh		
L.P.	Network of Displays Using a Universal Serial		
	Bus		
Dell	Selective Noise	17/159664	1/27/2021
Products	Cancellation		
L.P.			
Dell	Dynamic-Baseline	17/159578	1/27/2021
Products	Imaging Array with Real-		
L.P.	Time Spatial Data Capture		
Dell	and Fusion ASSIGNING	17/159678	1/27/2021
Products	CUSTOMER CALLS TO	17/139078	1/2//2021
L.P.	CUSTOMER CALES TO		
	AGENTS BASED ON		
	COMPATABILITY		
Dell	Color Temperature	17/160097	1/27/2021
Products	Adjustment Independent		
L.P.	of Scaler Color Space		
Dell	Adjusting Audio Volume	17/160141	1/27/2021
Products	and Quality of Near End		
L.P.	and Far End Talkers	17/150000	1/27/2021
Dell Products	Synchronous Multi- Segment Hinge for	17/159880	1/27/2021
L.P.	Foldable Devices		
Dell	Method to dynamically	17/160362	1/27/2021
Products	assess and improve PC	1.,100002	
L.P.	user Wellbeing		
Dell	Encrypted Data Storage	17/159903	1/27/2021
Products	System		
L.P.	D . 11 T C	15/150 (05	1/26/2021
Dell	Portable Information	17/158605	1/26/2021
Products L.P.	Handling System		
L.F.	Midframe to Sliding Frame Assembly		
Dell	Information Handling	17/158370	1/26/2021
Products	System Mass Balancing	177130370	1,20,2021
L.P.	Thermal Reservoirs		
			1

Dell	Zoned Dielectric Loss	17/158524	1/26/2021
Products	Circuit Board System		
L.P.			
Dell	Power Supply Powerline	17/158427	1/26/2021
Products	Networking Management		
L.P.	System		
Dell	Inhomogeneous Dielectric	17/158618	1/26/2021
Products	Medium High-Speed		
L.P.	Stripline Trace System		
Dell	Inhomogeneous Dielectric	17/158769	1/26/2021
Products	Medium High-Speed		
L.P.	Stripline Trace System		
Dell	SYSTEM AND	17/159064	1/26/2021
Products	METHOD FOR		
L.P.	OPERATING AN		
	INTELLIGENT		
	VIDEOFRAME		
	PRIVACY		
	MONITORING		
	MANAGEMENT		
	SYSTEM FOR		
	VIDEOCONFERENCING		
	APPLICATIONS		
Dell	SYSTEM AND	17/158548	1/26/2021
Products	METHOD FOR		
L.P.	INTELLIGENT		
	APPEARANCE		
	MONITORING		
	MANAGEMENT		
	SYSTEM FOR		
	VIDEOCONFERENCING		
D 11	APPLICATIONS	17/150400	1/0//0021
Dell	Systems and Methods for	17/158482	1/26/2021
Products	Power Protection on		
L.P.	Failed Memory Devices	17/150012	1/26/2021
Dell	NVME Over Fabrics	17/158912	1/20/2021
Products	Authentication System		
L.P. Dell	DATA COLLECTION	17/157257	1/25/2021
Products	AGENT TRAINED FOR	111131231	112312021
L.P.	TELEMETRY DATA		
1.1.	COLLECTION		
Dell	Contextual Latency	17/156812	1/25/2021
Products	Configuration for	17/130012	1/23/2021
L.P.	Isochronous Audio		
L.I.	Transport		
Dell	A SYSTEM AND	17/157586	1/25/2021
Products	METHOD FOR VIDEO	17,10,000	1/20/2021
L.P.	PERFORMANCE		
	OPTIMIZATIONS		
<u> </u>			1

	DIDING A MDEO		T
	DURING A VIDEO		
	CONFERENCE		
	SESSION		
Dell	Management Controller to	17/157492	1/25/2021
Products	BIOS Root of Trust		
L.P.	Bypass Implant Detection		
	and Remediation		
Dell	SYSTEM AND	17/156618	1/24/2021
Products	METHOD FOR	17/130010	1/24/2021
L.P.			
L.F.	SERVICEABILITY		
	DURING EXECUTION		
	OFA VIDEO		
	CONFERENCING		
	APPLICATION USING		
	INTELLIGENT		
	CONTEXTUAL		
	SESSION		
	MANAGEMENT		
Dell	SYSTEM AND	17/156606	1/24/2021
Products	METHOD FOR		
L.P.	INTELLIGENT		
	VIRTUAL		
	BACKGROUND		
	MANAGEMENT FOR		
	VIDEOCONFERENCING		
	APPLICATIONS		
D 11		17/155070	1 /22 /2221
Dell	Innovative hard disk	17/155279	1/22/2021
Products	failure detection using		
L.P.	sound sensors to use as an		
	input to sound		
	classification techniques		
	(PART#2 -focuses on the		
	sound classification		
	technique)		
Dell	Innovative hard disk	17/155272	1/22/2021
Products	failure detection using		
L.P.	sound sensors to use as an		
	input to sound		
	classification techniques		
	(PART#1-focuses only on		
	the sound sensor)		
D-11		17/155221	1/22/2021
Dell	A method to authenticate	17/155231	1/22/2021
Products	users in combination of		
L.P.	finger prints and		
	heartbeats		
Dell	METHOD AND	17/155801	1/22/2021
Products	APPARATUS FOR		
L.P.	PROACTIVEL Y		
	COUNTERING THE		

	EFFECTS OF STORAGE		
	DEVICE FAILURE		
Dell	AUTOMATED	17/155197	1/22/2021
Products	SOFTWARE UPGRADE		
L.P.	DOWNLOAD		
	CONTROL BASED ON		
	DEVICE ISSUE		
	ANALYSIS		
Dell	A Method To Determine	17/155223	1/22/2021
Products	the Most Appropriate time		
L.P.	to replace faulty FAN		
Dell	IMPROVING TEST	17/155533	1/22/2021
Products	CASE EXECUTION		
L.P.	SEQUENCES		
Dell	DETACHABLE	17/155804	1/22/2021
Products	WIRELESS CHARGING		
L.P.	CLIP		
Dell	System and Method for	17/155425	1/22/2021
Products	Intelligent Imaging		
L.P.	Sensory Classification		
Dell	SYSTEM AND	17/155932	1/22/2021
Products	METHOD FOR		
L.P.	CALCULATING		
	BATTERY LIFE		
Dell	Automated Synchronous	17/155995	1/22/2021
Products	Key Multi-Factor		
L.P.	Authentication		
Dell	Secure Infrastructure	17/155821	1/22/2021
Products	Onboarding System		
L.P.	AGVACHRONOLIC	17/15/107	1/22/2021
Dell Products	ASYNCHRONOUS	17/156187	1/22/2021
	MEETING		
L.P.	MANAGEMENT FOR		
	COLLABORATION SOLUTIONS		
Dell	METHOD AND	17/156166	1/22/2021
Products	SYSTEM FOR	17/130100	1/22/2021
L.P.	DYNAMIC AUTO-		
L.F.	GENERATION OF UP-		
	TO-DATE		
	DEPLOYMENT AND		
	OPERATIONS		
	GUIDANCE FOR		
	SOLUTIONS		
Dell	Clamshell cable channel	17/156075	1/22/2021
Products	sealing method and	THEODIA	1,22,2021
L.P.	apparatus		
Dell	MANAGING INTERNET	17/155398	1/22/2021
Products	PROTOCOL (IP)	1.11100070	1,22,2021
L.P.	ADDRESS DETECTION		
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	WITH A SYSTEM		
	MANAGEMENT		
	CONSOLE		
Dell	Systems and Methods for	17/155788	1/22/2021
Products	Providing Secured Boot		
L.P.	and Scan for Devices with		
	Limited Access		
Dell	Mechanisms and Method	17/154931	1/21/2021
Products	for Two-Sided Rack		
L.P.	Access		
Dell	Image-Based Search and	17/154390	1/21/2021
Products	Prediction System for		
L.P.	Physical Defect		
	Investigations		
Dell	NETWORK TIME	17/154469	1/21/2021
Products	PARAMETER	1//10770/	1,21,2021
L.P.	CONFIGURATION		
1.1.	BASED ON LOGICAL		
	HOST GROUP		
Dell		17/154341	1/21/2021
	Automatically Migrating	1//154541	1/21/2021
Products	Process Capabilities Using		
L.P.	Artificial Intelligence		
	Techniques		
Dell	Automatically Identifying	17/154326	1/21/2021
Products	and Correcting Erroneous		
L.P.	Process Actions Using		
	Artificial Intelligence		
	Techniques		
Dell	SECURE DATA	17/154271	1/21/2021
Products	STRUCTURE FOR		
L.P.	DATABASE SYSTEM		
Dell	Information Handling	17/154800	1/21/2021
Products	System with Integrated		
L.P.	Latches for Stacking		
	Electrical Enclosures		
Dell	OPTIMIZATION OF	17/154140	1/21/2021
Products	LOW POWER STATES		
L.P.	WHILE AC LINE		
1.1.	POWER		
	AVAILABILITY IS		
	LIMITED		
Dell	FOLDABLE DISPLAY	17/154201	1/21/2021
		17/134201	1/21/2021
Products	FOR AN		
L.P.	INFORMATION		
	HANDLING SYSTEM	15/15/100	1/21/2021
Dell	SCALED COMPUTE	17/154400	1/21/2021
Products	MANAGEMENT FOR		
L.P.	COLLABORATION		
	SOLUTIONS		

Products   L.P.   METHOD FOR   METHOD SERVICE   PROVIDERS   Managed Intelligent   17/154329   1/21/2021   Managed Intelligent   Discovery with Working   L.P.   Together Easy Connect   Together Easy Connect   Together Easy Connect   METHOD FOR   METHO	Dell	SYSTEM AND	17/154386	1/21/2021
L.P.   MEETING   PREPARATION AND   USER CONTENT   MANAGEMENT USING   HETEROGENEOUS   CLOUD SERVICE   PROVIDERS	l .		177131300	1,21,2021
PREPARATION AND USER CONTENT  MANAGEMENT USING HETEROGENEOUS CLOUD SERVICE PROVIDERS  Dell Managed Intelligent Discovery with Working L.P. Together Easy Connect  Dell LIGHTING, COLOR VIETUAL BACKGROUND CORRECTION DURING A VIDEO CONFERENCE SESSION  Dell SYSTEM AND METHOD FOR INTELLIGENT CONTEXTUAL SESSION  Dell NAMAGEMENT FOR VIDEO CONFERENCING APPLICATIONS  Dell Systems and Methods for Floadings Manadement  Dell Support Platform WITH BI- L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION  DIRECTIONAL L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION L.P. NEGROUSE EXTRACTION FROM L.P. STRACTION FROM L.P. MAGGES USING NEURAL NETWORK TECHNIQUES AND Dell DEVICE DISCOVERY IN A VIRTUALIZED L.P. ENVIRONMENT Dell IN FORMAEN L.P. Products L.P. INFORMATION L.P. NEURAL NETWORK TECHNIQUES AND Dell IN A VIRTUALIZED L.P. ENVIRONMENT Dell Firmware Failure Reason Products L.P. Prediction Using Machine  17/153370 1/20/2021	l .	I		
USER CONTENT   MANAGEMENT USING HETEROGENEOUS   CLOUD SERVICE   PROVIDERS	L.I .			
MANAGEMENT USING HETEROGENEOUS CLOUD SERVICE PROVIDERS		I		
HETEROGENEOUS   CLOUD SERVICE   PROVIDERS				
CLOUD SERVICE   PROVIDERS				
Dell				
Dell		1		
Products   Discovery with Working   Together Easy Connect	Dell		17/15/320	1/21/2021
L.P.   Together Easy Connect   Dell   LIGHTING, COLOR   T/154821   1/21/2021			17/134327	1/21/2021
Dell				
Products   L.P.		-	17/15/821	1/21/2021
L.P.		•	17/134621	1/21/2021
BACKGROUND CORRECTION DURING A VIDEO CONFERENCE SESSION  Dell SYSTEM AND Products L.P. INTELLIGENT CONTEXTUAL SESSION  MANAGEMENT FOR VIDEOCONFERENCING APPLICATIONS  Dell Systems and Methods for Floating Paddle Card L.P. Enablement  Dell SUPPORT PLATFORM Products L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION L.P. INFORMATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell SYSTEM AND Dell Products L.P. INFORMATION L.P. INAGES USING NEURAL NETWORK TECHNIQUES AND Dell DEVICE DISCOVERY Products L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Preducts Products Prediction Using Machine  17/153370 1/20/2021		· · · · · · · · · · · · · · · · · · ·		
CORRECTION DURING	L.P.			
A VIDEO				
CONFERENCE   SESSION				
Dell   SYSTEM AND   17/154528   1/21/2021		I		
Dell		I		
Products   L.P.	Dall		17/15/529	1/21/2021
L.P. INTELLIGENT CONTEXTUAL SESSION MANAGEMENT FOR VIDEOCONFERENCING APPLICATIONS  Dell Systems and Methods for Products L.P. Enablement  Dell SUPPORT PLATFORM Products UTH BI- DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION INFORMATION L.P. INFORMATION L.P. INFORMATION INFORMATION UTH BI- DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION I			17/154528	1/21/2021
CONTEXTUAL SESSION MANAGEMENT FOR VIDEOCONFERENCING APPLICATIONS  Dell Systems and Methods for Products L.P. Dell SUPPORT PLATFORM Products UTH BI- DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell Products L.P. Dell SURPORT PLATFORM TI/152860  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  1/20/2021  Dell Dell Device Discovery Products L.P. IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prod				
SESSION MANAGEMENT FOR VIDEOCONFERENCING APPLICATIONS  Dell Systems and Methods for Floating Paddle Card L.P. Enablement  Dell SUPPORT PLATFORM Products WITH BI- L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND Dell DEVICE DISCOVERY IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Products L.P. Environment  Interval 1/20/2021  1/20/2021	L.P.			
MANAGEMENT FOR VIDEOCONFERENCING APPLICATIONS  Dell Systems and Methods for Products Floating Paddle Card Enablement  Dell SUPPORT PLATFORM 17/152860  Products WITH BI-L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359  Products EXTRACTION FROM IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DeVICE DISCOVERY IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Products In A VIRTUALIZED ENVIRONMENT  Dell Firmware Failure Reason Products Products Products In Products In Machine Information I				
VIDEOCONFERENCING APPLICATIONS  Dell Systems and Methods for Floating Paddle Card Enablement  Dell SUPPORT PLATFORM 17/152860 1/20/2021  Products UITH BI- DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND Dell DEVICE DISCOVERY IN A VIRTUALIZED ENVIRONMENT  Dell Firmware Failure Reason Products Products Products Computed Signal Products Co				
APPLICATIONS  Dell Systems and Methods for Products Floating Paddle Card L.P. Enablement  Dell SUPPORT PLATFORM 17/152860 1/20/2021  Products WITH BI- DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY 17/153091 1/20/2021  Products L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine		I		
Dell Systems and Methods for Products Floating Paddle Card Enablement  Dell SUPPORT PLATFORM 17/152860 1/20/2021  Products WITH BI- DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY 17/153091 1/20/2021  Products IN A VIRTUALIZED ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine				
Products L.P. Enablement  Dell SUPPORT PLATFORM 17/152860 1/20/2021  Products WITH BI- L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY IN A VIRTUALIZED ENVIRONMENT  Dell Firmware Failure Reason Products Products Products Products Products Products Products Prediction Using Machine	D 11		17/15/006	1/01/0001
L.P. Enablement  Dell SUPPORT PLATFORM 17/152860 1/20/2021  Products WITH BI- L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine			17/154836	1/21/2021
Dell SUPPORT PLATFORM 17/152860 1/20/2021 Products WITH BI- L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021 Products EXTRACTION FROM IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Products Products Prediction Using Machine				
Products L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine  17/153370  1/20/2021			15/150060	1/20/2021
L.P. DIRECTIONAL COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine  17/153370  1/20/2021			17/152860	1/20/2021
COMMUNICATION CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine  COMMUNICATION CHANNEL FOR PICTURE 1/20/2021  1/20/2021  1/20/2021	1			
CHANNEL FOR PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY 17/153091 1/20/2021  Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason 17/153370 1/20/2021  Products Prediction Using Machine	L.P.			
PERFORMING REMOTE ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY 17/153091 1/20/2021  Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine		1		
ACTIONS ON COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine				
COMPUTING DEVICES  Dell INFORMATION 17/153359 1/20/2021  Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine				
Dell INFORMATION 17/153359 1/20/2021 Products EXTRACTION FROM L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY 17/153091 1/20/2021 Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason 17/153370 1/20/2021 Products Prediction Using Machine		1		
Products L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine  EXTRACTION FROM 1/20/2021  1/20/2021  1/20/2021			15/150050	1/20/2021
L.P. IMAGES USING NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine		I	17/153359	1/20/2021
NEURAL NETWORK TECHNIQUES AND  Dell DEVICE DISCOVERY Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine	1	I		
TECHNIQUES AND  Dell DEVICE DISCOVERY 17/153091 1/20/2021  Products IN A VIRTUALIZED ENVIRONMENT  Dell Firmware Failure Reason 17/153370 1/20/2021  Products Prediction Using Machine	L.P.			
Dell DEVICE DISCOVERY 17/153091 1/20/2021 Products IN A VIRTUALIZED L.P. ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine 17/153370 1/20/2021		I		
Products IN A VIRTUALIZED ENVIRONMENT  Dell Firmware Failure Reason Products Prediction Using Machine  IN A VIRTUALIZED 1/20/2021  1/20/2021		-		
L.P. ENVIRONMENT  Dell Firmware Failure Reason 17/153370 1/20/2021  Products Prediction Using Machine			17/153091	1/20/2021
Dell Firmware Failure Reason 17/153370 1/20/2021 Products Prediction Using Machine		1		
Products Prediction Using Machine				
			17/153370	1/20/2021
L.P.   Learning Techniques	l .			
	L.P.	Learning Techniques		

Dell	ELECTRONIC DEVICE	17/152964	1/20/2021
Products	MANAGEMENT		
L.P.	UTILIZING A		
D-11	DISTRIBUTED LEDGER	17/152004	1/20/2021
Dell Products	ADJUSTING CAMERA SETTINGS BASED ON	17/152904	1/20/2021
L.P.	A DISPLAY OF AN		
L.1 .	INFORMATION		
	HANDLING SYSTEM		
Dell	Information Handling	17/153665	1/20/2021
Products	System Blue Light		
L.P.	Exposure System and		
	Method		
Dell	System and Method for	17/153203	1/20/2021
Products	Measuring and Controlling		
L.P.	Dust Ingress in a Particulate Matter Sensor		
	in an Information		
	Handling System		
Dell	Information Handling	17/153668	1/20/2021
Products	System Display Visual		
L.P.	Augmentation System and		
	Method		
Dell	Aggregated Networking	17/153072	1/20/2021
Products	Subsystem Station Move		
L.P.	Control System	17/152009	1/20/2021
Dell Products	Asymmetric to Symmetric IRB Migration System	17/152908	1/20/2021
L.P.	TRB Migration System		
Dell	System and Method for	17/153583	1/20/2021
Products	Closed-Loop Memory	17,100000	
L.P.	Power Capping		
Dell	SYSTEM	17/152043	1/19/2021
Products	FUNCTIONALITY		
L.P.	ACTIVATION USING		
D 11	DISTRIBUTED LEDGER	17/150007	1/10/2021
Dell	BLOCKCHAIN-BASED	17/152037	1/19/2021
Products L.P.	ATTESTATION SERVICE		
Dell	Transforming Background	17/152195	1/19/2021
Products	Color of Displayed	111106170	1/1//2021
L.P.	Documents to Increase		
	Lifetime of OLED Display		
Dell	System and Method for	17/152396	1/19/2021
Products	Transfer of Clipboard		
L.P.	Data Between Display		
	Screens		
Dell	SYSTEM AND	17/152115	1/19/2021
Products	METHOD OF		
L.P.	UTILIZING MEMORY		

			T
	MEDIUM FAULT		
	RESILIENCY WITH		
	SECURE MEMORY		
	MEDIUM PORTIONS		
Dell	Storage Usage	17/151817	1/19/2021
Products	Management System		
L.P.			
Dell	BINDING CUSTOMER-	17/152314	1/19/2021
Products	SIGNED IMAGE TO A		
L.P.	SPECIFIC PLATFORM		
Dell	DETERMINING	17/151459	1/18/2021
Products	CHANGES TO	177131137	1/10/2021
L.P.	COMPONENTS OF A		
L.I .	COMPUTING DEVICE		
	PRIOR TO BOOTING		
	TOA PRIMARY		
	ENVIRONMENT OF		
	THE COMPUTING		
D-11	DEVICE Secretary and Marks of Secretary	17/151411	1/19/2021
Dell	System and Method for	17/151411	1/18/2021
Products	Switching and On-Device		
L.P.	Portability of Personalized		
	Monitor Profiles		
Dell	EVENT-BASED	17/150662	1/15/2021
Products	OPERATIONAL DATA		
L.P.	COLLECTION FOR		
	IMPACTED		
	COMPONENTS		
Dell	CONTEXT-BASED	17/150623	1/15/2021
Products	INTELLIGENT RE-		
L.P.	INITIATION OF		
	MICROSERVICES		
Dell	ADJUSTING	17/150042	1/15/2021
Products	UNDERLIGHTING OF A		
L.P.	KEYBOARD INPUT		
	DEVICE		
Dell	Auto Allocate The	17/149974	1/15/2021
Products	Position Setting For	±111±T221T 	111312021
L.P.	Extending Monitors		
Dell	Method to use enterprise	17/149956	1/15/2021
Products	hosted, integrity protected	1771 <del>4</del> 9950	1/13/2021
L.P.	ledger for component		
L.I.	certificate attestation		
Dall		17/140028	1/15/2021
Dell	Group Conference Video	17/149938	1/15/2021
Products	Optimization		
L.P.	26.1.1.2.2	17/150740	1/15/2021
Dell	Method to Produce	17/150743	1/15/2021
Products	flexible hinge covers for		
L.P.	foldable devices		

Dell Products L.P.	Method to Resolve Touch and Pen Conflict Among Multiple Touch Controllers in Large and Foldable Touch Screen Displays	17/150423	1/15/2021
Dell Products L.P.	SMART SERVICE ORCHESTRATOR	17/150108	1/15/2021
Dell Products L.P.	Automatically Determining Configuration-Based Issue Resolutions Across Multiple Devices Using Machine Learning Models	17/148738	1/14/2021
Dell Products L.P.	DISPLAYING MULTI- SOURCE CONTENT BASED ON INTERACTION DATA	17/149049	1/14/2021
Dell Products L.P.	SYSTEM AND METHOD OF DETERMINING AT LEAST ONE INFORMATION HANDLING SYSTEM FORA GAME	17/148981	1/14/2021
Dell Products L.P.	Thermal and Acoustical Management in Information Handling Systems Based on Mechanical Connections	17/148786	1/14/2021
Dell Products L.P.	Thermal and Acoustical Management in Information Handling Systems	17/149192	1/14/2021
Dell Products L.P.	MEMORY SCRUB SYSTEM	17/147555	1/13/2021
Dell Products L.P.	Portable LED Receiver	17/148271	1/13/2021
Dell Products L.P.	Desktop Display Assignment Optimization in a Virtual Desktop Environment	17/148241	1/13/2021
Dell Products L.P.	MANAGING CONTENT OF A USER INTERFACE	17/147850	1/13/2021

Dell Products	MANAGING INPUT SENSITIVITY OF AN	17/147796	1/13/2021
L.P.	INFORMATION HANDLING SYSTEM		
Dell	IMAGE ANALYSIS FOR	17/147657	1/13/2021
Products	PROBLEM		
L.P.	RESOLUTION		
Dell	Information Handling	17/148286	1/13/2021
Products	System Host to		
L.P.	Management Controller Attestation Service		
	Channel		
Dell	Client Driven Cloud	17/148345	1/13/2021
Products	Network Access System	177140343	171372021
L.P.	and Method		
Dell	Configuration Cluster-	17/148318	1/13/2021
Products	Based Performance		
L.P.	Optimization of		
	Applications in an		
	Information Handling		
D 11	System (IHS)  ML-to-ML Orchestration	17/149301	1/12/2021
Dell Products		17/148291	1/13/2021
L.P.	System and Method for System Wide Information		
L.I .	Handling System (IHS)		
	Optimization (1715)		
Dell	Transceiver with	17/147269	1/12/2021
Products	integrated visual indicator		
L.P.	for port link and activity		
Dell	Locking apparatus for	17/147291	1/12/2021
Products	securing a transceiver		
L.P.	module	17/14/000	1/10/0001
Dell Products	Predicting Statistics	17/146883	1/12/2021
L.P.	Gathering Times for Database Activity Data		
L.1 .	Using Machine Learning		
	Techniques		
Dell	SYSTEM AND	17/146721	1/12/2021
Products	METHOD OF		
L.P.	UTILIZING A		
	MULTIPLAYER GAME		
Dell	Extensible Upgrade and	17/146817	1/12/2021
Products	Modification as a Service		
L.P.	CVCTEM AND	17/146694	1/12/2021
Dell Products	SYSTEM AND METHOD OF	17/146684	1/12/2021
L.P.	ADJUSTING		
	ATTRIBUTES OF AN		
	APPLICATION BASED		
	AT LEAST ON A		

	CTDECC INDEV		1
	STRESS INDEX		
	ASSOCIATED WITH A USER		
Dell		17/147224	1/12/2021
	Information Handling	17/147224	1/12/2021
Products	System Variable Feel		
L.P.	Input Device	17/146140	1/11/2021
Dell	SYSTEMS AND	17/146140	1/11/2021
Products	METHODS FOR		
L.P.	COMPARISON AND		
	SCORING OF		
	NETWORK ACCESS		
	POINTS	15/1/5/50	1/11/2021
Dell	System and Method for	17/145479	1/11/2021
Products	Authorization Scope		
L.P.	Extension for Security		
	Protocol and Data Model		
D 11	Capable Devices	17/146420	1/11/2021
Dell	Server Airflow Reporting	17/146428	1/11/2021
Products	via Air Mover Power		
L.P.	Measurement	17/146204	1/11/2021
Dell	Unique method of	17/146394	1/11/2021
Products	determination and control		
L.P.	of temperature threshold		
	on airflow (open loop)		
- II	controlled devices	17/14/2006	1/11/2021
Dell	Method for Remote	17/146266	1/11/2021
Products	Assisted Optimization of		
L.P.	Native Services	17/11/10/0	1/0/2021
Dell	Mechanical cable release	17/144966	1/8/2021
Products	in transceiver		
L.P.	GOVERNOVANIA	17/1/1007	1/0/0001
Dell	CONTROLLING A	17/144907	1/8/2021
Products	STATE OF A SHUTTER		
L.P.	OF A CAMERA		
	MODULE OF AN		
	INFORMATION		
D 11	HANDLING SYSTEM	17/14/512	1,10,10,001
Dell	MODEL-BASED	17/144512	1/8/2021
Products	RESOURCE		
L.P.	ALLOCATION FOR AN		
	INFORMATION		
	HANDLING SYSTEM	1-11-11-11	
Dell	METHOD TO	17/144815	1/8/2021
Products	ENHANCE SYSTEM		
L.P.	POWER AND		
	THERMAL LIMITS		
	THROUGH SOFTWARE		
	CONTROL FOR		
	CONFIGURATIONS		1

	USING EXTERNAL		
	MONITORS		
Dell	INFORMATION	17/144637	1/8/2021
Products	HANDLING SYSTEM		
L.P.	CLOSED LOOP		
	BANDWIDTH		
	PRIORITIZATION	1=11.11=0	11010001
Dell	METHOD AND	17/144589	1/8/2021
Products	APPARATUS FOR		
L.P.	CHANGE		
	AUTOMATION		101000
Dell	SYSTEM AND	17/144903	1/8/2021
Products	METHOD TO UTILIZE		
L.P.	HIGH BANDWIDTH		
	MEMORY (HBM)		
Dell	UNIFORM BEZEL	17/143853	1/7/2021
Products	DISPLAY WITH OFF-		
L.P.	AXIS ILLUMINATION		
Dell	Hidden Monitor Support	17/143839	1/7/2021
Products			
L.P.			
Dell	BIOS/OS KEY	17/143374	1/7/2021
Products	PROVISIONING		
L.P.	SYSTEM		
Dell	High-Speed Cable Drain	17/143894	1/7/2021
Products	Wire System		
L.P.			
Dell	Information Handling	17/143861	1/7/2021
Products	System Infinity Keyboard		
L.P.	with Hidden Lattice		
Dell	REPLACING	17/143753	1/7/2021
Products	DEDICATED WITNESS		
L.P.	NODE IN A		
	STRETCHED CLUSTER		
	WITH DISTRIBUTED		
	MANAGEMENT		
	CONTROLLERS		
Dell	System and Method for	17/142588	1/6/2021
Products	Predictively Sensing		
L.P.	Harmful Environmental		
	Conditions Based on		
	Location and Historical		
	User Data		
Dell	SINGLE-AND MULTI-	17/142944	1/6/2021
Products	CHANNEL, MULTI-		
L.P.	LATENCY PAYLOAD		
	BUS		
Dell	USING PREDICTION	17/141551	1/5/2021
Products	UNCERTAINTY QUANTIFIER WITH		
L.P.			

			,
	MACHINE LEANING		
	CLASSIFIER TO		
	PREDICT THE		
	SURVIVAL OF A		
	STORAGE DEVICE		
Dell	Voice Equalization Based	17/142043	1/5/2021
Products	on Face Position and		
L.P.	System Therefor		
Dell	System and Method for	17/141666	1/5/2021
Products	Storage Class Memory	17711333	17072021
L.P.	Tiering		
Dell	UPDATING A	17/141884	1/5/2021
Products	COMPUTING DEVICE	177141004	1/3/2021
L.P.	OF AN INFORMATION		
L.1 .	HANDLING SYSTEM		
Dell	SYSTEMS AND	17/140988	1/4/2021
Products	METHODS OF	17/140900	1/4/2021
L.P.	AUTOMATICALLY		
	PRE-PROVISIONING		
	EMBEDDED		
	SUBSCRIBER		
	IDENTIFICATION		
	MODULE (ESIM)		
	PROFILES ON AN		
	INFORMATION		
	HANDLING SYSTEM		
Dell	Updating Firmware of	17/140899	1/4/2021
Products	Unsupported Devices		
L.P.			
Dell	Multi-device conference	17/138988	12/31/2020
Products	call transfer using BLE		
L.P.	Ranging		
Dell	Predicting Component	17/137670	12/30/2020
Products	Lifespan Information by		
L.P.	Processing User Install		
	Base Data and		
	Environment-Related Data		
	Using Machine Learning		
	Techniques		
Dell	DETERMINING A	17/137733	12/30/2020
Products	DEPLOYMENT		
L.P.	SCHEDULE FOR		
	OPERATIONS		
	PERFORMED ON		
	DEVICES USING		
	DEVICES USING		
	DEPENDENCIES AND		
	REDUNDANCIES AND		
	KEDUNDANCIES		

Dell Products L.P.	System an Method for Providing Secure Console Access with Multiple Smart NICS Using NC-SI andSPDM	17/138424	12/30/2020
Dell Products L.P.	Console-Based Validation of Secure Assembly and Delivery of Information Handling Systems	17/138182	12/30/2020
Dell Products L.P.	Validating Secure Assembly and Delivery of Multiple Information Handling Systems Installed in a Shared Chassis	17/138113	12/30/2020
Dell Products L.P.	Secure Booting of Information Handling Systems Based on Validated Hardware	17/138045	12/30/2020
Dell Products L.P.	Validating Secure Modifications to Information Handling Systems	17/137976	12/30/2020
Dell Products L.P.	Validating Secure Delivery of Information Handling Systems	17/137903	12/30/2020
Dell Products L.P.	Validating Secure Assembly and Delivery of Information Handling Systems	17/137849	12/30/2020
Dell Products L.P.	CLUSTERING STORAGE SYSTEMS FOR SHARING OF DATA PATTERNS USED FOR DEDUPLICATION	17/136484	12/29/2020
Dell Products L.P.	Automatically Determining Storage System Data Breaches Using Machine Learning Techniques	17/135274	12/28/2020
Dell Products L.P.	Automatically Generating Conditional Instructions for Resolving Predicted System Issues Using Machine Learning Techniques	17/135249	12/28/2020
Dell Products L.P.	Secure Data Collection for Validation of Installed Components of	17/135252	12/28/2020

	Information Handling Systems		
Dell Products L.P.	Secure Identification of Components Installed in Information Handling System	17/135187	12/28/2020
Dell Products L.P.	Wi-Fi TWT for Bluetooth Traffic Persistence	17/134265	12/26/2020
Dell Products L.P.	Method For Adaptive Link Persistence In Intelligent Connectivity	17/133511	12/23/2020
Dell Products L.P.	Self-Describing System Using Single- Source/Multi-Destination Cable	17/132905	12/23/2020
Dell Products L.P.	Systems and Methods for Providing Secure Logic Device Authentication, Update, and Recovery	17/132783	12/23/2020
Dell Products L.P.	System and Method for Dynamically Disabling Haptic Feedback with Recognition of Pen on Touch Sensitive Area of an Information Handling System	17/130271	12/22/2020
Dell Products L.P.	SYSTEMS AND METHODS FOR SINGLE-WIRE MULTI- PROTOCOL DISCOVERY AND ASSIGNMENT TO PROTOCOL-AW ARE PURPOSE-BUILT ENGINES	17/131300	12/22/2020
Dell Products L.P.	System and method to monitor, deploy, and evaluate the migration of on-premises application services to cloud model (hybrid/public)	17/131491	12/22/2020
Dell Products L.P.	Information Handling System with a Printed Circuit Board having an Embedded interconnect	17/128848	12/21/2020
Dell Products L.P.	System and Method for Dynamic Configuration Setting Update of a BIOS Firmware Image	17/128289	12/21/2020

Dell	Multi-VPN multi link	17/127249	12/18/2020
Products	traffic routing		
L.P.	D : 11 M 1:0:	17/10/001	12/19/2020
Dell	Dynamically Modifying	17/126291	12/18/2020
Products L.P.	Call Flow Management		
L.P.	Using a Common Data  Model Interface for		
	Automated Call		
	Distribution Systems		
Dell	SYSTEM AND	17/127503	12/18/2020
Products	METHOD FOR	17/12/303	12/16/2020
L.P.	COORDINATING		
L.1 .	GAMING HAPTIC		
	RESPONSE ACROSS		
	PERIPHERAL DEVICE		
	ECOSYSTEM		
Dell	Multilayer Encryption for	17/126070	12/18/2020
Products	User Privacy Compliance		
L.P.	and Corporate		
	Confidentiality		
Dell	Systems and Methods for	17/126073	12/18/2020
Products	Securely Deploying a		
L.P.	Collective Workspace		
	across Multiple Local		
	Management Agents		
Dell	Creating and Handling	17/126122	12/18/2020
Products	Workspace Indicators of		
L.P.	Compromise (IOC) based		
D 11	upon Configuration Drift	15/10/055	12/10/2020
Dell	Trusted Local	17/126077	12/18/2020
Products L.P.	Orchestration of		
Dell	Workspaces Workspace Deployment	17/126144	12/18/2020
Products	using a Secondary Trusted	17/120144	12/18/2020
L.P.	Device		
Dell	CONTROLLING AN	17/126205	12/18/2020
Products	OPERATING	177120203	12/10/2020
L.P.	TEMPERATURE OF A		
	PROCESSOR TO		
	REDUCE POWER		
	USAGE AT AN		
	INFORMATION		
	HANDLING SYSTEM		
Dell	SYSTEM AND	17/126086	12/18/2020
Products	METHOD FOR		
L.P.	LOUVER-INTEGRATED		
	DIRECTIONAL		
	AIRFLOW FANS		

Dell	Automated Networking	17/126325	12/18/2020
Products	Device Replacement		
L.P.	System Springer	17/1057/0	12/17/2020
Dell	PRESSURE SENSOR	17/125762	12/17/2020
Products	WITH MICROPHONE		
L.P.	AND METAL OXIDE		
	SENSOR OF A GAMING HEADSET		
	MICROPHONE		
	MOUTHPIECE		
Dell	System and Method for	17/125177	12/17/2020
Products	Adaptive Automated		
L.P.	Preset Audio Equalizer		
	Settings		
Dell	Self-Describing Cable	17/124774	12/17/2020
Products			
L.P.	Tion in the case	15/105006	12/17/2020
Dell	Efficient Storage of Key-	17/125086	12/17/2020
Products L.P.	Value Data with Schema		
	Integration	17/124276	12/16/2020
Dell Products	Physical Infrastructure/Virtual	17/124276	12/16/2020
L.P.			
L.F.	Infrastructure Integration System		
Dell	Fleet Remediation of	17/124324	12/16/2020
Products	Compromised Workspaces	111124324	12/10/2020
L.P.	Compromised Workspaces		
Dell	Systems and Methods for	17/124295	12/16/2020
Products	Performing Self-		
L.P.	Contained Posture		
	Assessment from within a		
	Protected Portable-Code		
	Workspace		
Dell	Systems and Methods for	17/123814	12/16/2020
Products	Self-Protecting and Self-		
L.P.	Refreshing Workspaces		
Dell	Aperiodically Overlapping	17/123698	12/16/2020
Products	Spiral-Wrapped Cable		
L.P.	Shield System	17/12/1202	10/1//0000
Dell	SYSTEM AND	17/124393	12/16/2020
Products	METHOD FOR		
L.P.	MANAGING VIRTUAL		
	HARDWARE LICENSES OF HARDWARE		
	RESOURCES		
	ACCESSED VIA		
	ACCESSED VIA APPLICATION		
	INSTANCES		
	1.5111.025		

Dell	Information Handling	17/122467	12/15/2020
Products	System with Sensor	17/122407	12/13/2020
L.P.	Activated Battery Charge		
	Level Indicator		
Dell	System and Method to	17/120775	12/14/2020
Products	Adapt Memory Usage of		
L.P.	Containerized Workspaces		
Dell	Port Unavailability	17/118959	12/11/2020
Products L.P.	Remediation System		
Dell	Information Handling	17/119599	12/11/2020
Products	System Speaker Mount		
L.P.	Under a Transparent		
	Housing Cover		
Dell	Information Handling	17/119584	12/11/2020
Products	System Housing Cover		
L.P. Dell	Inflatable Seal Information Handling	17/119594	12/11/2020
Products	System Visual	17/117374	12/11/2020
L.P.	Presentation with Audio		
L.1 .	Vector Based Information		
Dell	Information Handling	17/119590	12/11/2020
Products	System Virtual and		
L.P.	Physical Keyboard		
	Position Coordination		
Dell	System and Method for	17/118471	12/10/2020
Products	Dynamic Sensitivity		
L.P.	Control for Interference		
	Avoidance		
Dell	Adaptive Direct Attached	17/117379	12/10/2020
Products	Hotplug Detection		
L.P. Dell	METHOD AND	17/117028	12/9/2020
Products	SYSTEM FOR	1//11/028	12/9/2020
L.P.	COMPOSED		
L.I.	INFORMATION		
	HANDLING SYSTEM		
	REALLOCATION		
	BASED ON PRIORITY		
Dell	SYSTEM AND	17/116962	12/9/2020
Products	METHOD FOR BACKUP		
L.P.	GENERATION USING		
	COMPOSED SYSTEMS		
Dell	SYSTEM AND	17/116892	12/9/2020
Products	METHOD FOR INTENT		
L.P.	BASED DATA		
D "	PROTECTION	17/11/02/	12/0/2020
Dell	SYSTEM AND	17/116924	12/9/2020
Products L.P.	METHOD FOR DYNAMIC DATA		
L.F.	DINAMIC DATA	<u> </u>	

	PROTECTION		
	ARCHITECTURE		
Dell	SYSTEM AND	17/117034	12/9/2020
Products	METHOD FOR UNIFIED		
L.P.	INFRASTRUCTURE		
	ARCHITECTURE		
Dell	METHOD AND	17/117038	12/9/2020
Products	SYSTEM FOR		
L.P.	COMPOSING SYSTEMS		
	USING RESOURCE		
	SETS		
Dell	SYSTEM AND	17/116259	12/9/2020
Products	METHOD FOR		
L.P.	MONITORING USE OF		
	COMPUTING		
	RESOURCES		
Dell	SYSTEM AND	17/116777	12/9/2020
Products	METHOD FOR		
L.P.	MANAGING		
	RESOURCE		
	ALLOCATIONS IN		
	COMPOSED SYSTEMS		
Dell	COMPOSABLE	17/117067	12/9/2020
Products	INFORMATION		
L.P.	HANDLING SYSTEMS		
	IN AN OPEN		
	NETWORK USING		
	ACCESS CONTROL		
	MANAGERS		
Dell	THIS PROVISIONING	17/116988	12/9/2020
Products	OF RESOURCES USING		
L.P.	SCPS AND A BIDDING		
	SYSTEM		
Dell	SYSTEM AND	17/116832	12/9/2020
Products	METHOD FOR		
L.P.	PERFORMING		
	WORKLOADS USING		
	COMPOSED SYSTEMS		
Dell	SYSTEM AND	17/117054	12/9/2020
Products	METHOD FOR		
L.P.	ALLOCATING		
	RESOURCES TO		
	PERFORM		
	WORKLOADS		
Dell	METHOD AND	17/117047	12/9/2020
Products	SYSTEM FOR		
L.P.	MAINTAINING		
	COMPOSED SYSTEMS		

Dell	DATA MIRRORING	17/117059	12/9/2020
Products	AND DATA	1//11/00/	12/7/2020
L.P.	MIGRATION BETWEEN		
2.1.	STORAGE VOLUMES		
	USING SYSTEM		
	CONTROL		
	PROCESSORS		
Dell	SYSTEM AND	17/116870	12/9/2020
Products	METHOD FOR	17/110070	12/7/2020
L.P.	IDENTIFYING		
2	RESOURCES OF A		
	COMPOSED SYSTEM		
Dell	METHOD FOR	17/117014	12/9/2020
Products	CONSOLIDATING	17717017	12,7,2020
L.P.	INFRACTURE		
2	DEPLOYMENT		
	INCLUDING		
	NETWORKING, OUT-		
	OF-BAND		
	MANAGEMENT, AND		
	IN-BAND		
	MANAGEMENT		
	THROUGH A WEB		
	GRAPHICAL USER		
	INTERFACE		
Dell	Data Encryption Key	17/115998	12/9/2020
Products	Management System		
L.P.			
Dell	Multi-Domain Boot and	17/113372	12/7/2020
Products	Runtime Status Code Drift		
L.P.	Detection		
Dell	Information Handling	17/113575	12/7/2020
Products	System with Airflow and		
L.P.	Acoustics Vane for Hard		
	Disk Drive Throughput		
Dell	Information Handling	17/113509	12/7/2020
Products	System Handle with		
L.P.	Integrated Thermal		
	Rejection System		
Dell	Information Handling	17/113514	12/7/2020
Products	System Dynamic Thermal		
L.P.	Behavior		
Dell	Baffle to Change Cooling	17/113528	12/7/2020
Products	Air Flow Direction		
L.P.			
Dell	Information Handling	17/113524	12/7/2020
Products	System Integrated Speaker		
L.P.	with Variable Volume		
	Sound Chamber		

Dell	Information Handling	17/113518	12/7/2020
Products	System with Articulated	17/113310	12/1/2020
L.P.	Cooling Fins Between		
L.1 .	Interleaved and Separated		
	Positions		
Dell	Adaptive Resource	17/114164	12/7/2020
Products	Allocation System and	1//114104	12/1/2020
L.P.	Method for a Target		
L.1.	Application executed in an		
	Information Handling		
	System (IHS)		
Dell	SYSTEM AND	17/112882	12/4/2020
Products	METHOD FOR	17/112002	12/4/2020
L.P.	INTEGRATION OF AN		
L.i .	ANTENNA ELEMENT		
	AND FRONT-END		
	MODULE CO-		
	LOCATED INTO A		
	SPEAKER CHAMBER		
Dell	SYSTEM FOR A SOLID	17/112869	12/4/2020
Products	STATE KEYBOARD	1.7.112003	12,2020
L.P.	AND TOUCHPAD WITH		
	A SINGLE SHEET		
	COVER FOR		
	PROVIDING HAPTIC		
	FEEDBACK		
Dell	A method for managing	17/111593	12/4/2020
Products	content on dual screen		
L.P.	devices		
Dell	SYSTEM AND	17/112826	12/4/2020
Products	METHOD FOR		
L.P.	KEYBOARD AND		
	PALM REST THREE-		
	DIMENSIONAL HAPTIC		
	EXPERIENCE		
Dell	THERMO-HAPTICS	17/112015	12/4/2020
Products	FOR A POINTING		
L.P.	DEVICE FOR GAMING		
Dell	Systems and Methods for	17/111253	12/3/2020
Products	Evaluating Security Risks		
L.P.	using a Manufacturer-		
	Signed Software		
	Identification Manifest	15/110551	12/2/2/22
Dell	SYSTEM AND	17/110754	12/3/2020
Products	METHOD FOR		
L.P.	GESTURE		
	ENABLEMENT AND		
	INFORMATION		
	PROVISIONING		I .

Dell Products L.P.	Systems and Methods for Bare-Metal or Pre-Boot User-Machine Authentication, Binding, and Entitlement Provisioning	17/110043	12/2/2020
Dell Products L.P.	Method to Dynamically Bias CPU Frequency Based on Application, Temperature and Acoustic and System Therefor	17/110073	12/2/2020
Dell Products L.P.	AUTOMATED SECURITY PROFILE MANAGEMENT FOR AN INFORMATION HANDLING SYSTEM	17/109823	12/2/2020
Dell Products L.P.	System and Method for Supporting Multiple Independent Silicon- Rooted Trusts Per System- on-a-Chip	17/109390	12/2/2020
Dell Products L.P.	Systems and Methods for Dynamic Adjustment of Workspaces Based on Available Local Hardware	17/107345	11/30/2020
Dell Products L.P.	Intention-Based Device Component Tracking System	17/106291	11/30/2020
Dell Products L.P.	METHOD AND APPARATUS FOR WIRELESS SIGNAL BASED LOCATION ENDPOINT TRIANGULATION USING 5G MMWAVE, LTE, AND WI-FI	17/107577	11/30/2020
Dell Products L.P.	SYSTEM AND METHOD FOR BEEMSTEERING ACQUISITION AND OPTIMIZATION IN AN ENHANCED REALITY ENVIRONMENT	17/107493	11/30/2020
Dell Products L.P.	Handling Away Messages with Intelligent Assistance Using Voice Services	17/106416	11/30/2020
Dell Products L.P.	CONTROLLING CHARGING OF COMPUTING DEVICE THROUGH PORTS	17/106410	11/30/2020

	CONNECTED TO		1
	CONNECTED TO EXTERNAL DEVICES		
Dell	SYSTEMS AND	17/106434	11/30/2020
Products	METHODS FOR	17/100434	11/30/2020
	SINGLE-WIRE IN-		
L.P.			
	BAND PULSE- ADDRESSABLE		
	MULTIPLEXER		
D 11		17/10/200	11/20/2020
Dell	SYSTEMS AND	17/106390	11/30/2020
Products	METHODS FOR		
L.P.	MANAGEMENT		
	CONTROLLER CO-		
	PROCESSOR HOST TO		
	VARIABLE SUBSYSTEM PROXY		
Dell	Secure Fibre	17/107624	11/30/2020
Products	Channel/NVME Fabric	17/107024	11/30/2020
L.P.			
Dell	Communication System System and Method for	17/107209	11/30/2020
Products	1 -	17/107209	11/30/2020
L.P.	Re-Enumerating a Secured		
L.F.	Drive Dynamically Within		
Dell	an Operating System Fibre Channel Host	17/107322	11/30/2020
Products		17/10/322	11/30/2020
L.P.	Onboarding System		
Dell	Asymmetric High-Speed	17/103421	11/24/2020
Products	Interconnect Routing	177103421	11/24/2020
L.P.	Interposer		
Dell	HOT-PLUGGED PCIE	17/102591	11/24/2020
Products	DEVICE	17/102391	11/24/2020
L.P.	CONFIGURATION		
L.I .	SYSTEM		
Dell	System and Method for	17/103111	11/24/2020
Products	Providing Granular	17/103111	1112712020
L.P.	Processor Performance		
	Control		
Dell	System and Method for	17/101754	11/23/2020
Products	Improving Reliability of	17/101754	11/23/2020
L.P.	an Information Handling		
	System		
Dell	Wire with unequal	17/101343	11/23/2020
Products	dimensions for cables in	17/101545	11/23/2020
L.P.	information handling		
	systems		
Dell	METHOD AND	17/100178	11/20/2020
Products	SYSTEM FOR INLINE	17/100176	11/20/2020
L.P.	DEDUPLICATION		
L.1.	USING ERASURE		
	CODING		
	CODING		

Dell	COMMUNICATION	17/100510	11/20/2020
Products	WITH AN	1100010	11.20.2020
L.P.	INFORMATION		
	HANDLING SYSTEM		
	AIR MOVER USING		
	ENHANCED DATA-		
	OVER-TACHOMETER		
	SIGNAL PROTOCOL		
	WITH VARIABLE		
	READ AND WRITE		
	COMMANDS		
Dell	SYSTEMS AND	17/100445	11/20/2020
Products	METHODS FOR IN-		
L.P.	BAND PULSE-		
	ADDRESSABLE		
	MULTIPLEXER		
Dell	Curved-edge display	17/100809	11/20/2020
Products	covers and methods of		
L.P.	making the same	16/052240	11/10/2020
Dell	System and Method to	16/952249	11/19/2020
Products	Secure a Narrow		
L.P.	Borderless Display Panel		
Dell	Without Cover Glass	16/952714	11/10/2020
Products	SYSTEM AND METHOD FOR FAN	16/932/14	11/19/2020
L.P.	NOISE CANCELLER		
Dell	METHOD FOR POWER	16/952467	11/19/2020
Products	BRAKE STAGGERING	10/932407	11/19/2020
L.P.	AND IN-RUSH		
D.1 .	SMOOTHING FOR		
	MULTIPLE ENDPOINTS		
Dell	Micro-Strand Transceiver	16/952903	11/19/2020
Products	Heat Dissipation System		
L.P.	J		
Dell	Wireless Channel	16/951095	11/18/2020
Products	Selection Management		
L.P.	System and Method of		
	Using the Same		
Dell	Multi-Band Simultaneous	16/951068	11/18/2020
Products	Switching System and		
L.P.	Method of Using the Same		
Dell	Thermally Conductive	16/951051	11/18/2020
Products	Poled Damping Assembly		
L.P.	D 16	16050572	11/17/2022
Dell	Power Management	16950572	11/17/2020
Products	System		
L.P.	N. d. L. D.	16/050221	11/17/2020
Dell	Method to Dynamically	16/950231	11/17/2020
Products L.P.	Adjust Display to Enhance		
	Ambient Lighting in a		

	Video Conference and		
	System Therefor		
Dell	AUTOMATED LINK	17/098635	11/16/2020
Products	AGGREGATION		
L.P.	GROUP		
	CONFIGURATION		
	SYSTEM		
Dell	Preventing Unauthorized	17/099374	11/16/2020
Products	Access to Non-Volatile		
L.P.	Memory (NVM)		
	Subsystem Namespaces.		
Dell	Magnetic Dual Axis Hinge	17/097525	11/13/2020
Products	System and Method		
L.P.	Therefor		
Dell	Memory Thermal	17/096571	11/12/2020
Products	Management During	177070371	11,12,2020
L.P.	Initialization of an		
	Information Handling		
	System		
Dell	Memory Power Fault	17/096720	11/12/2020
Products	Resilience in Information	17/090720	11/12/2020
L.P.	Handling Systems		
		17/00/002	11/12/2020
Dell	System and Method for	17/096083	11/12/2020
Products	Predictive Fan Speed		
L.P.	Control and Management	17/00/1/2	11/12/2020
Dell	Systems and Methods for	17/096163	11/12/2020
Products	Asynchronous Input-		
L.P.	Output Scanning and		
	Aggregation for Solid		
	State Drive		
Dell	Method and Apparatus to	17/095180	11/11/2020
Products	Distribute Current		
L.P.	Indicator to Multiple End-		
	Points		
Dell	Optimizing Hybrid Cloud	17/095307	11/11/2020
Products	Usage		
L.P.			
Dell	SWITCH-BASED	17/094217	11/10/2020
Products	INTER-DEVICE		
L.P.	NOTATIONAL DATA		
	MOVEMENT SYSTEM		
Dell	Graphical User Interface	17/093161	11/9/2020
Products	(GUI) for Controlling		
L.P.	Virtual Workspaces		
	Produced Across		
	Information Handling		
	Systems (IHSs)		
Dell	Information Handling	17/090406	11/5/2020
Products	System Antenna Isolation		
L.P.			
·	1		1

	with Integrated Cooling Fan		
Dell Products L.P.	System and Method for Mitigating Analytics Loads Between Hardware Devices	17/090376	11/5/2020
Dell Products L.P.	System and Method for Turning Off a Display Device Based on Energy Usage	17/090049	11/5/2020
Dell Products L.P.	System and Method for Overdrive Setting Control on a Liquid Crystal Display	17/089339	11/4/2020
Dell Products L.P.	SYSTEMS AND METHODS FOR VARYING AN IMPEDANCE OF A CABLE	17/088306	11/3/2020
Dell Products L.P.	ADJUSTABLE VENTING RATIO MECHANISM FOR INFORMATION HANDLING SYSTEM	17/088250	11/3/2020
Dell Products L.P.	SYSTEMS AND METHODS FOR MODIFYING SECURITY OR PRIVACY MODE OF INFORMATION HANDLING SYSTEM PERIPHERALS	17/087940	11/3/2020
Dell Products L.P.	SYSTEMS AND METHODS FOR DYNAMIC CAMERA FILTERING	17/087912	11/3/2020
Dell Products L.P.	Systems and Methods for Distribution of Shared Content Based on Session Context	17/088188	11/3/2020
Dell Products L.P.	Chaos Engineering in Microservices Using a Service Mesh	17/086540	11/2/2020
Dell Products L.P.	SELECTIVELY CONTROLLING A MONITOR'S ON- SCREEN DISPLAY WITH A KEYBOARD OR MOUSE	17/087023	11/2/2020

Dell	Contextual Intelligence for	17/087034	11/2/2020
Products	Virtual Workspaces	177067034	11/2/2020
L.P.	Produced Across		
L.F.			
	Information Handling		
D 11	Systems (IHSs)	17/00/052	11/2/2020
Dell	Dynamic Virtual	17/086953	11/2/2020
Products	Workspace with		
L.P.	Contextual Control of		
	Input/Output (1/0)		
	Devices		
Dell	SYSTEMS AND	17/087021	11/2/2020
Products	METHODS FOR		
L.P.	ACHIEVING FASTER		
	BOOT TIMES USING		
	BIOS ATTRIBUTE		
	MITIGATION		
Dell	SYSTEMS AND	17/087242	11/2/2020
Products	METHODS FOR		
L.P.	ADAPTIVE		
	ELECTRONIC		
	PRIVACY SCREEN		
	BASED ON		
	INFORMATION		
	HANDLING SYSTEM		
	CONTEXT		
EMC IP	METHOD, DEVICE	16/588993	9/27/2019
Holding	AND COMPUTER		
Company	PROGRAM PRODUCT		
LLC	FOR STORAGE		
	MANAGEMENT		
EMC IP	METHOD, DEVICE	16/588951	9/30/2019
Holding	AND COMPUTER	10/000701	3,6 0,2013
Company	PROGRAM PRODUCT		
LLC	FOR CONFIGURING		
	SERVICE INSTANCE		
EMC IP	METHOD, DEVICE	16/586863	9/30/2019
Holding	AND COMPUTER		7.50.2017
Company	PROGRAM PRODUCT		
LLC	FOR BACKUP		
	MANAGEMENT		
EMC IP	METHOD, DEVICE	16/588903	9/30/2019
Holding	AND COMPUTER	10/300703	7,50,2019
Company	PROGRAM PRODUCT		
LLC	FOR STORAGE		
LLC	MANAGEMENT		
EMCID		17/161070	1/29/2021
EMC IP	Method And System For	17/161979	1/29/2021
Holding	Maximizing Performance		
Company	Of A Storage System		
LLC			

EMC IP Holding Company	MANAGING NODES OF A DISTRIBUTED APPLICATION	17/162249	1/29/2021
LLC		17.0.000	1/20/2021
EMC IP Holding Company	STORAGE SYSTEM CONFIGURATION MANAGMENT	17/162206	1/29/2021
EMC IP Holding Company LLC	Replacing the integrated laptop touchpad with a digitizer	17/161112	1/28/2021
EMC IP Holding Company LLC	WORKLOAD GENERATOR AND SIMULATOR FOR STORAGE CACHING SYSTEMS	17/160656	1/28/2021
EMC IP Holding Company LLC	RANK-CORRELATED PATTERNS FOR GUIDING HARDWARE DESIGN	17/160566	1/28/2021
EMC IP Holding Company LLC	Online heuristic sequentiality detection over 1/0 streams for cache systems in large address spaces	17/161252	1/28/2021
EMC IP Holding Company LLC	Maintaining retention policies in a block storage, multi-client DDUP domain	17/160783	1/28/2021
EMC IP Holding Company LLC	Forecasting Technology Phase Using Unsupervised Clustering with Wardley Maps	17/160782	1/28/2021
EMC IP Holding Company LLC	Secure Password Log in on Insecure Devices	17/161030	1/28/2021
EMC IP Holding Company LLC	Key Management and Key Policies for Data Encryption in a Storage Appliance	17/160981	1/28/2021
EMC IP Holding Company LLC	COPYING DATA BETWEEN STORAGE SYSTEMS	17/160465	1/28/2021
EMC IP Holding Company LLC	Cluster counters implemented on Lock Value Blocks	17/160545	1/28/2021

EMC IP	Novel Tool-Less Limited	17/161146	1/28/2021
Holding	Rotation, Telescoping		
Company	Fastener		
LLC	GIVAN ARVON	174 600 40	1/20/2021
EMC IP	SIMULATION FOR	17/160949	1/28/2021
Holding	ALTERNATIVE		
Company	COMMUNICATION		
LLC			
EMC IP	METHOD AND	17/160680	1/28/2021
Holding	SYSTEM FOR		
Company	VERIFYING SECRET		
LLC	DECRYPTION		
	CAPABILITY OF		
	ESCROW AGENTS		
EMC IP	Pruned Model of Open Set	17/161541	1/28/2021
Holding	Deep Neural Network for		
Company	Efficient Critical-class		
LLC	Object Detection	17/1/0/00	1/20/2021
EMC IP	SYSTEM AND	17/160638	1/28/2021
Holding	METHOD FOR		
Company	MANAGING MEDIA		
LLC	ACCESSES	17/1/1/20	1/20/2021
EMC IP	FAILSAFE	17/161433	1/28/2021
Holding	MECHANISM TO		
Company	IMPORT SNAPSHOTS		
LLC	A .1 1.	17/1/053/	1/20/2021
EMC IP	A method to improve	17/160526	1/28/2021
Holding	storage deduplication		
Company	efficiency by predicting		
LLC	optimal rolling offsets in		
	Sequential WRITES based		
EMC IP	on Empirical Distribution	17/160400	1/29/2021
	Adaptive spares	17/160490	1/28/2021
Holding	assignment for fast		
Company LLC	recovery of a disk failure		
EMC IP	METHOD,	17/161298	1/28/2021
Holding	ELECTRONIC DEVICE	1//101270	1/20/2021
Company	AND COMPUTER		
LLC	PROGRAM PRODUCT		
LLC	FOR MANAGING		
	BACKUP SYSTEM		
EMC IP	APPLICATION CRASH	17/160021	1/27/2021
Holding	ANALYSIS	17/100021	1/2//2021
Company	TECHNIQUES WHEN		
LLC	MEMORY DUMP AND		
	DEBUG SYMBOLS ARE		
	NOT CO-LOCATED		
	HOT CO-LOCATED		1

EMC IP	Improving RAID	17/159282	1/27/2021
Holding	reliability with a		
Company LLC	provisional spare disk		
EMC IP	Secure, Low-Cost,	17/160166	1/27/2021
Holding	Privacy-Preserving	17/100100	1/2//2021
Company	Biometric Card		
LLC			
EMC IP	Singular control path for	17/159582	1/27/2021
Holding	Mainframe storage array		
Company	control		
LLC			
EMC IP	ALERTING AND	17/159329	1/27/2021
Holding	MANAGING DATA		
Company	STORAGE SYSTEM		
LLC	PORT OVERLOAD DUE TO HOST PATH		
	FAILURES		
EMC IP	AI/ML approach for	17/160164	1/27/2021
Holding	DDOS prevention on 5G	177100104	172772021
Company	CBRS networks		
LLC			
EMC IP	METHOD AND	17/160365	1/27/2021
Holding	SYSTEM FOR		
Company	PERFORMING DATA		
LLC	PROTECTION		
	MANAGEMENT USING		
	AN ADD-ON		
	APPLICATION		
	PROGRAMMING INTERFACE		
EMC IP	METHOD AND	17/160353	1/27/2021
Holding	SYSTEM FOR	177100333	1,2,,2,021
Company	IDENTIFYING AND		
LLC	DELETING RECORDS		
	ON HOSTS		
EMC IP	METHOD AND	17/160340	1/27/2021
Holding	SYSTEM FOR		
Company	MANAGING CHANGES		
LLC	OF RECORDS ON HOSTS		
EMC IP	METHOD AND	17/160323	1/27/2021
Holding	SYSTEM FOR	17/100323	1/2//2021
Company	PROACTIVE DATA		
LLC	PROTECTION OF		
	VIRTUAL MACHINES		
EMC IP	Disaster Recovery	17/159385	1/27/2021
Holding			
Company			
LLC			

EMC IP	Tiered Persistent Memory	17/159327	1/27/2021
Holding Company			
LLC			
EMC IP	METHOD FOR	17/159412	1/27/2021
Holding	DISTRIBUTING	17/137/12	172772021
Company	VIRTUAL VISUAL		
LLC	CONTENT		
EMC IP	METHOD,	17/159715	1/27/2021
Holding	ELECTRONIC DEVICE		
Company	AND COMPUTER		
LLC	PROGRAM PRODUCT		
	FOR STORAGE		
EN COLD	MANAGEMENT	17/150/50	1/26/2021
EMC IP	Cyber Immunity system as	17/158650	1/26/2021
Holding	a biological self-		
Company LLC	recognition model on operating systems		
EMC IP	Method And System For	17/158536	1/26/2021
Holding	Replication	17/130330	1/20/2021
Company	Replication		
LLC			
EMC IP	METHOD AND	17/158615	1/26/2021
Holding	SYSTEM FOR		
Company	COMPRESSION IN		
LLC	BLOCK-BASED		
	STORAGE SYSTEMS		
EMC IP	Signal of Risk Access	17/158556	1/26/2021
Holding	Control		
Company			
LLC EMC IP	Efficient communication	17/157204	1/25/2021
Holding	Efficient compression packing algorithm	17/137204	1/23/2021
Company	applying Greedy First-fit		
LLC	with caching and ranking		
	method in storage sub-		
	system		
EMC IP	Storing Digital Data in	17/155609	1/22/2021
Holding	Storage Devices Using		
Company	Smart Contract and		
LLC	Blockchain Technolo2:v		
EMC IP	Securely Archiving Digital	17/155552	1/22/2021
Holding	Data in DNA Storage As		
Company	Blocks in a Blockchain		
LLC	ODDODTHNITY	17/15547/	1/22/2021
EMC IP	OPPORTUNITY CONVERSION BATE	17/155476	1/22/2021
Holding	CONVERSION RATE CALCULATOR		
Company LLC	CALCULATUR		
LLC			1

EMC IP Holding	Metro Cluster for Virtual Volumes	17/155381	1/22/2021
Company LLC			
EMC IP Holding Company LLC	RECOVERY OF PAGE DESCRIPTION BLOCKS BASED ON CONTEXT	17/156030	1/22/2021
EMC IP Holding Company LLC	Write First to Winner in a Metro Cluster	17/155367	1/22/2021
EMC IP Holding Company LLC	SIMILARITY DEDUPLICATION	17/155224	1/22/2021
EMC IP Holding Company LLC	Intelligent Monitoring of Backup and Recovery Activity in Data Storage Systems	17/156035	1/22/2021
EMC IP Holding Company LLC	Storing Digital Data in DNA Storage Using Blockchain and Destination-Side Deduplication Using Smart Contracts	17/155505	1/22/2021
EMC IP Holding Company LLC	MAINTAINING ONLINE ACCESS TO DATA STORED IN A PLURALITY OF STORAGE DEVICES DURING A HARDWARE UPGRADE	17/155328	1/22/2021
EMC IP Holding Company LLC	AUTOMATED FAILOVER BACKUP RECONFIGURATION MANAGEMENT FOR STORAGE SYSTEMS	17/155277	1/22/2021
EMC IP Holding Company LLC	DISASTER RECOVERY IN A STREAMING DATA STORAGE SYSTEM	17/154274	1/21/2021
EMC IP Holding Company LLC	Method and Apparatus for Deterministically Identifying Sets of Snapshots on a Storage System	17/154332	1/21/2021
EMC IP Holding	TECHNIQUES FOR WORKLOAD BALANCING	17/154191	1/21/2021

Company			
LLC			
EMC IP	RETRIEVAL OF	17/154056	1/21/2021
Holding	PORTIONS OF		
Company	STORAGE DEVICE		
LLC	ACCESS DATA		
	INDICATING ACCESS STATE CHANGES		
EMC IP	FAST CONVERGING	17/154243	1/21/2021
Holding	GRADIENT		
Company	COMPRESSOR FOR		
LLC	FEDERATED		
	LEARNING		
EMC IP	protecting databases in a	17/154268	1/21/2021
Holding	clusterless availability		
Company	group		
LLC	CONFIGURDING	17/15/000	1/21/2021
EMC IP	CONFIGURING HOST	17/154000	1/21/2021
Holding	ACCESS FOR VIRTUAL		
Company	VOLUMES		
LLC EMC IP	ACVMMETRIC	17/15/170	1/21/2021
1	ASYMMETRIC FULFILLMENT OF	17/154179	1/21/2021
Holding Company	REMOTE PROCEDURE		
LLC	CALLS BY MULTI-		
LLC	CORE SYSTEMS		
EMC IP	INDICATING	17/154027	1/21/2021
Holding	OPTIMIZED AND NON-	17/134027	1/21/2021
Company	OPTIMIZED PATHS TO		
LLC	HOSTS USING NVME-		
	OFIN A METRO		
	CLUSTER STORAGE		
	SYSTEM		
EMC IP	Parity Allocation for a	17/153602	1/20/2021
Holding	Virtual Redundant Array		
Company	of Independent Disks		
LLC			
EMC IP	TRANSFERRING	17/153621	1/20/2021
Holding	APPLICATIONS FROM		
Company	OVERUTILIZED		
LLC	ARRAYS OF		
	COMPUTER SYSTEMS		
	TO UNDERUTILIZED		
	ARRAYS OF		
EL CONTROL	COMPUTER SYSTEMS	17/150105	1/20/2021
EMC IP	CENTRALIZED HIGH-	17/153135	1/20/2021
Holding	AVAILABILITY FLOWS		
Company	EXECUTION		
LLC	FRAMEWORK		

EMC IP DETECTION AND 17/152854 1/20/2021	
Holding MITIGATION OF SLOW	
Company DRAIN ISSUES USING	
LLC RESPONSE TIMES AND	
STORAGE-SIDE	
LATENCY VIEW	
EMC IP RECOVERING 17/153108 1/20/2021	
Holding CONSISTENCY OF A	
Company RAID (REDUNDANT	
LLC ARRAY OF	
INDEPENDENT DISKS)	
METADATA	
DATABASE	
EMC IP [Re-submission 122005] 17/153294 1/20/2021	
Holding Stochastic risk scoring	
Company with counterfactual	
LLC analysis for storage	
capacity	
Holding distributed availability	
Company group	
LLC	
EMC IP   STORAGE SYSTEM   17/153219   1/20/2021	
Holding HAYING RAID STRIPE	
Company   METADATA	
LLC	
EMC IP         Ordered Event Stream         17/152558         1/19/2021	
Holding Event Annulment in an	
Company Ordered Event Stream	
LLC Storage	
System	
EMC IP Framed Event Access in 17/152544 1/19/2021	
Holding an Ordered Event Stream	
Company Storage System	
LLC	
EMC IP Mapped Redundant Array 17/152537 1/19/2021	
Holding of Independent Nodes	
Company Employing Mapped	
LLC Reliability Groups for	
Data Storage	
EMC IP Synchronous Destage of 17/151794 1/19/2021	
Holding Write Data from Shared	
Company Global Memory to Back-	
LLC End Storage Resources	
Holding Generating Simulated Test	
Company IO Operations	
LLC	
EMC IP ZERO BLOCK 17/151833 1/19/2021 Holding ELIMINATION	

Company	REPORTING FOR A		
LLC	FILE SYSTEM		
EMC IP	USING CHECKSUMS	17/151876	1/19/2021
Holding	FOR MINING STORAGE		
Company	DEVICE ACCESS DATA		
LLC			
EMC IP	[Resubmission - 122006]	17/152371	1/19/2021
Holding	Method to suggest best		
Company	SCM configuration based		
LLC	on resource		
	proportionality in a de-		
	duplication based backup		
EMC IP	storage. DISTRIBUTED RAID	17/152270	1/19/2021
Holding	REBUILD	17/132270	1/19/2021
Company	REBUILD		
LLC			
EMC IP	SNAPSHOT	17/152169	1/19/2021
Holding	PERFORMANCE		
Company	OPTIMIZATIONS		
LLC			
EMC IP	DATA COPY OFFLOAD	17/151784	1/19/2021
Holding	COMMAND SUPPORT		
Company	ACROSS MULTIPLE		
LLC	STORAGE ACCESS		
ENGIR	PROTOCOLS	17/151447	1/10/2021
EMC IP	Unified Host-Based Data	17/151447	1/18/2021
Holding	Migration		
Company LLC			
EMC IP	DATA STORAGE	17/151413	1/18/2021
Holding	SYSTEM WITH	17/131413	1710/2021
Company	MULTIPLE-SIZE		
LLC	OBJECT ALLOCATOR		
	FOR DISK CACHE		
EMC IP	Multi-Tenant Data	17/151424	1/18/2021
Holding	Protection Using Tenant-		
Company	Based Token Validation		
LLC	and Data Encryption		
EMC IP	CREATING HIGH	17/151325	1/18/2021
Holding	AVAILABILITY STOPACE VOLUMES		
Company LLC	STORAGE VOLUMES FOR SOFTWARE		
LLC	CONTAINERS		
EMC IP	MULTI-PATH LAYER	17/151302	1/18/2021
Holding	CONFIGURED FOR	17/13/1302	1/10/2021
Company	DETECTION AND		
LLC	MITIGATION OF SLOW		
	DRAIN ISSUES IN A		
	1		

	STORAGE AREA		
	NETWORK		
EMC IP	Basic Input/Output System	17/151420	1/18/2021
Holding	Protection Using Multi-		
Company	Factor Authentication		
LLC	Based on Digital Identity Values		
EMC IP	Firmware Protection	17/151418	1/18/2021
Holding	Using Multi-Chip Storage	1//131418	1/18/2021
Company	of Firmware Image		
LLC	or i imware image		
EMC IP	Tracking Virus Footprint	17/150344	1/15/2021
Holding	in Data Copies	17,1303 11	1,10,2021
Company			
LLC			
EMC IP	Metadata implementation	17/150199	1/15/2021
Holding	while writing to Object		
Company	Store		
LLC			
EMC IP	Effective tiering of data	17150077	1/15/2021
Holding	protected in object store		
Company	using object lookup table		
LLC	D. III. DD 0.5-55555	17/1700/1	1417/2024
EMC IP	DATA PROCESSING	17/150041	1/15/2021
Holding	SYSTEM USING		
Company LLC	SKELETON VIRTUAL VOLUMES FOR		
LLC	IMPROVED SYSTEM		
	STARTUP		
EMC IP	A method to make the disk	17/150221	1/15/2021
Holding	failure predictor	17,100221	1713/2021
Company	interpretable		
LLC			
EMC IP	ORDERING DATA	17/148955	1/14/2021
Holding	STREAM EVENTS IN A		
Company	STREAMING DATA		
LLC	STORAGE PLATFORM		
EMC IP	Predictable Member	17/148814	1/14/2021
Holding	Assignment for Expanding		
Company	Flexible RAID System		
LLC		17/1/0220	1/14/0624
EMC IP	Automatically	17/149238	1/14/2021
Holding	Discovering and Securing		
Company	Identifying Connected		
LLC EMC ID	Systems Accelerating Packup by	17/1/01/6	1/14/2021
EMC IP	Accelerating Backup by	17/149146	1/14/2021
Holding Company	Writing to Performance Ranked Memory		
LLC	Kanked Welliory		
LLC			

EMC IP	SCHEDULING	17/148872	1/14/2021
Holding	STORAGE SYSTEM		
Company	TASKS TO PROMOTE		
LLC	LOW LATENCY AND		
	SUSTAINABILITY		
EMC IP	Efficient garbage	17/148421	1/13/2021
Holding	collection mechanism for		
Company	deduped cloud objects in a		
LLC	completely full or nearly		
	full cloud storage		
EMC IP	Efficient method to protect	17/148415	1/13/2021
Holding	backup application's		
Company	(dedupe and non-dedupe)		
LLC	cloud objects from getting		
	deleted by malicious		
	attackers	17/1/0/120	140000
EMC IP	Verification of valid client	17/148420	1/13/2021
Holding	library binary file on		
Company	connecting to server		
LLC	system		
EMC IP	DEPENDENCY	17/147740	1/13/2021
Holding	RESOLUTION FOR		
Company	LAZY SNAPSHOTS IN		
LLC	STORAGE CLUSTER		
	WITH DELTA LOG		
	BASED ARCHITECTURE		
EMC IP	BACKUP WORKLOAD	17/147822	1/13/2021
Holding	PREDICTION AND	17/14/022	1/13/2021
Company	NOTIFICATION FOR		
LLC	STORAGE SYSTEMS		
EMC IP	Method and Apparatus for	17/146889	1/12/2021
Holding	Determining and	171140007	1,12,2021
Company	Depicting Effective		
LLC	Storage Capacity of a		
	Storage System		
EMC IP	Method and Apparatus for	17/146805	1/12/2021
Holding	Selective Compression of		
Company	Data During Initial		
LLC	Synchronization of		
	Mirrored Resources		
EMC IP	UTILIZING A HYBRID	17/146783	1/12/2021
Holding	TIER WHICH MIXES		
Company	SOLID STATE DEVICE		
LLC	STORAGE AND HARD		
	DISK DRIVE STORAGE		
EMC IP	ALTEDNIATIVE	17/146500	1/10/0001
I	ALTERNATIVE	17/146529	1/12/2021
Holding	STORAGE NODE	17/140329	1/12/2021
I		17/140329	1/12/2021

	CTOD A CE DEVICES		
	STORAGE DEVICES		
	GROUP IN A		
	DISTRIBUTED		
	STORAGE SYSTEM		
EMC IP	FRAMEWORK TO	17/147015	1/12/2021
Holding	QUANTIFY SECURITY		
Company	INDEVOPS		
LLC	DEPLOYMENTS		
EMC IP	A Dynamic QoS	17/146819	1/12/2021
Holding	Management Mechanism		
Company	for Persistent Memory on		
LLC	De-dup Storage System		
EMC IP	METHOD,	17/146558	1/12/2021
Holding	ELECTRONIC DEVICE,		
Company	AND COMPUTER		
LLC	PROGRAM PRODUCT		
	FOR INFORMATION		
	PROCESSING		
EMC IP	EVENT LEVEL	17/145588	1/11/2021
Holding	RETENTION	177173300	11112021
Company	MANAGEMENT FOR		
LLC	DATA STREAMS		
		17/1/5501	1/11/2021
EMC IP	FORKING DATA	17/145581	1/11/2021
Holding	STREAMS IN A		
Company	STREAMING DATA		
LLC	STORAGE PLATFORM		
EMC IP	RPC-LESS LOCKING	17/145625	1/11/2021
Holding	MECHANISM BASED		
Company	ON RDMA CAW FOR		
LLC	STORAGE CLUSTER		
	WITH ACTIVE-ACTIVE		
	ARCHITECTURE		
EMC IP	SYNCHRONIZING	17/145658	1/11/2021
Holding	DATA COPY		
Company	OPERATIONS FOR		
LLC	STORAGE SYSTEM		
	WITH ACTIVE-ACTIVE		
	STORAGE		
	CONFIGURATION		
EMC IP	REDISTRIBUTION OF	17/145646	1/11/2021
Holding	PROCESSING GROUPS		
Company	BETWEEN SERVER		
LLC	NODES BASED ON		
	HARDWARE		
	RESOURCE		
	UTILIZATION		
EMC IP	DATA REBALANCING	17/144314	1/8/2021
	AFTER A SCALE-OUT	1//144314	1/0/2021
Holding	EVENT IN A DATA		
Company LLC	STORAGE SYSTEM		
	510KAUE 5151EM		

Holding Company LLC EMC IP	COMPACTING DATA	17/143500	1/7/2021
LLC	STREAMS IN A		
	STREAMING DATA		
' EMC ID	STORAGE PLATFORM		
	LEVERAGING	17/143339	1/7/2021
Holding	GARBAGE		
Company	COLLECTION FOR		
LLC	RAID		
ENGIB	TRANSFORMATION	17/1/2560	1/7/2021
EMC IP	SECURE TOKEN-	17/143560	1/7/2021
Holding	BASED		
Company LLC	COMMUNICATIONS		
LLC	BETWEEN A HOST DEVICE ANDA		
	STORAGE SYSTEM		
EMC IP	STORAGE SYSTEM	17/143358	1/7/2021
Holding	CONFIGURED WITH	111143330	1///2021
Company	STEALTH DRIVE		
LLC	GROUP		
EMC IP	TECHNIQUES FOR	17/142557	1/6/2021
Holding	WORKLOAD	177112337	170/2021
Company	BALANCING USING		
LLC	DYNAMIC PATH		
	STATE		
	MODIFICATIONS		
EMC IP	PERFORMING FILE-	17/141535	1/5/2021
Holding	BASED TIME SERIES		
Company	MANAGEMENT		
LLC			
EMC IP	Efficient object store	17/141475	1/5/2021
Holding	usage for data protection		
Company	use cases		
		17/140855	1/4/2021
Holding			
	direct to object store		
Company	ENEOD CINIC OUT AT IEW	17/1/0216	1/4/2021
Company LLC	I HNHIBR INE IN ALILY		
Company LLC EMC IP	-	17/140316	1/4/2021
Company LLC EMC IP Holding	OF SERVICE IN A	17/140316	1/4/2021
Company LLC EMC IP Holding Company	OF SERVICE IN A VIRTUALIZED	17/140316	1/4/2021
Company LLC EMC IP Holding	OF SERVICE IN A VIRTUALIZED STORAGE	17/140316	1/4/2021
Company LLC EMC IP Holding Company LLC	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT		
Company LLC EMC IP Holding Company LLC EMC IP	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT METHOD FOR	17/139374	12/31/2020
Company LLC EMC IP Holding Company LLC EMC IP Holding	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT METHOD FOR PROTECTING EDGE		
Company LLC EMC IP Holding Company LLC EMC IP Holding Company	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT METHOD FOR		
Company LLC EMC IP Holding Company LLC EMC IP Holding	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT METHOD FOR PROTECTING EDGE DEVICE TRUST SCORE		
Company LLC EMC IP Holding Company LLC EMC IP Holding Company LLC	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT METHOD FOR PROTECTING EDGE	17/139374	12/31/2020
Company LLC EMC IP Holding Company LLC EMC IP Holding Company LLC EMC IP	OF SERVICE IN A VIRTUALIZED STORAGE ENVIRONMENT METHOD FOR PROTECTING EDGE DEVICE TRUST SCORE  Pre-emptive Container	17/139374	12/31/2020
LLC EMC IP Holding	Architecture: application agnostic data backup direct to object store  ENFORCING QUALITY	17/140855	1/4/2021

EMC IP Holding Company LLC	User-Based Data Tiering	17/137804	12/30/2020
EMC IP Holding Company LLC	TECHNIQUES FOR WORKLOAD BALANCING USING DYNAMIC PATH STATE MODIFICATIONS	17/137988	12/30/2020
EMC IP Holding Company LLC	METHOD, ELECTRONIC DEVICE, AND COMPUTER PROGRAM PRODUCT FOR INFORMATION PROCESSING	17/137625	12/30/2020
EMC IP Holding Company LLC	DISTRIBUTED SITE DATA RECOVERY IN A GEOGRAPHICALLY DISTRIBUTED DATA STORAGE ENVIRONMENT	17/136867	12/29/2020
EMC IP Holding Company LLC	COMPUTER INTERACTION METHOD, DEVICE, AND COMPUTER PRODUCT	17/136794	12/29/2020
EMC IP Holding Company LLC	Signal of Trust Access Prioritization	17/134903	12/28/2020
EMC IP Holding Company LLC	Best Outcome AIOps Modeling with Data Confidence Fabrics	17/134898	12/28/2020
EMC IP Holding Company LLC	ApplicationTemplate for Application Consistent Backup and Restore of Databases Applications in Kubernetes	17/135658	12/28/2020
EMC IP Holding Company LLC	METHOD, ELECTRONIC DEVICE, AND COMPUTER PROGRAM PRODUCT FOR APPLICATION MIGRATION	17/134778	12/28/2020
EMC IP Holding Company LLC	Intelligent Automatic Support	17/133283	12/23/2020

EMC IP Holding Company LLC	Hardware Device Integrity Validation Using Platform Configuration Values	17/132001	12/23/2020
EMC IP Holding Company LLC	RESUME SUPPORT FOR CLOUD STORAGE OPERATIONS	17/132042	12/23/2020
EMC IP Holding Company LLC	USER CONTEXT MIGRATION BASED ON COMPUTATION GRAPH IN ARTIFICIAL INTELLIGENCE APPLICATION EXECUTING IN EDGE COMPUTING ENVIRONMENT	17/132344	12/23/2020
EMC IP Holding Company LLC	CLOUD LAUNCH WIZARD	17/130896	12/22/2020
EMC IP Holding Company LLC	TIME BASED SLA COMPLIANCE FOR DISASTER RECOVERY OF BUSINESS CRITICAL VMS	17/130903	12/22/2020
EMC IP Holding Company LLC	A Userspace Split Data- Centric Heterogeneous Computing Architecture	17/130878	12/22/2020
EMC IP Holding Company LLC	Data Protection for high risk applications in IoT	17/131508	12/22/2020
EMC IP Holding Company LLC	Intelligent Data Restorability using Algorithmic Randomness Model	17/131450	12/22/2020
EMC IP Holding Company LLC	DISTRIBUTED HOT SPACE IN A DATA STORAGE SERVER	17/128765	12/21/2020
EMC IP Holding Company LLC	LOCK CONTENTION RESOLUTION FOR ACTIVE-ACTIVE REPLICATION PERFORMED IN CONJUNCTION WITH JOURNAL RECOVERY	17/128419	12/21/2020

EMC IP Holding Company LLC EMC IP	RESERVATION HANDLING IN CONJUNCTION WITH SWITCHING BETWEEN STORAGE ACCESS PROTOCOLS DEFERRED	17/123347 17/123525	12/16/2020
Holding Company LLC	RECLAMATION OF INVALIDATED ENTRIES ASSOCIATED WITH REPLICATION IN A LOG-STRUCTURED ARRAY		12/10/2020
EMC IP Holding Company LLC	MANAGING NETWORK SHARES UTILIZING FILESYSTEM SNAPSHOTS COMPRISING METADATA CHARACTERIZING NETWORK SHARES	17/122175	12/15/2020
EMC IP Holding Company LLC	MANAGING STORAGE RESOURCES ALLOCATED TO COPIES OF APPLICATION WORKLOADS	17/122188	12/15/2020
EMC IP Holding Company LLC	An intelligent solution to reduce data re-writing in cloud tier backup system	17/122260	12/15/2020
EMC IP Holding Company LLC	ANALYSIS OF DEEP- LEVEL CAUSE OF FAULT OF STORAGE MANAGEMENT	17/122833	12/15/2020
EMC IP Holding Company LLC	Tracking Users Modifying a File	17/120475	12/14/2020
EMC IP Holding Company LLC	Protecting Large Distributed File Systems	17/121590	12/14/2020
EMC IP Holding Company LLC	Using blockchain method to protect backup system in cloud	17/120737	12/14/2020
EMC IP Holding	METHOD, DEVICE, AND PROGRAM PRODUCT FOR	17/121653	12/14/2020

Company	MANAGING INDEX OF		
LLC	STREAMING DATA		
EMC IP	STORAGE SYSTEM	17/121643	12/14/2020
	METHOD, ELECTRONIC DEVICE,	17/121043	12/14/2020
Holding	AND COMPUTER		
Company LLC	PROGRAM PRODUCT		
LLC	FOR MANAGING		
	STORAGE SYSTEM		
EMC IP	Storage System Backup	17/119627	12/11/2020
Holding	and De-Duplication	17,117,027	12,11,2020
Company			
LLC			
EMC IP	File Lifetime Tracking For	17/118585	12/10/2020
Holding	Cloud-Based Object Stores		
Company	,		
LLC			
EMC IP	SYSTEMS AND	17/117001	12/9/2020
Holding	METHODS FOR		
Company	SELECTING DEVICES		
LLC	FOR BACKUP AND		
	RESTORE		
	OPERATIONS FOR		
E) (G ID	VIRTUAL MACHINES	17/11/00/	10/0/2020
EMC IP	FAULT TOLERANT	17/114804	12/8/2020
Holding	CLUSTER DATA		
Company LLC	HANDLING		
EMC IP	PERFORMANCE-	17/114854	12/8/2020
Holding	DRIVEN MOVEMENT	17/114034	12/0/2020
Company	OF APPLICATIONS		
LLC	BETWEEN		
	CONTAINERS WITH		
	DIFFERENT ACCESS		
	PROTOCOLS		
EMC IP	PERFORMANCE-	17/113184	12/7/2020
Holding	DRIVEN ACCESS		
Company	PROTOCOL		
LLC	SWITCHING FOR A		
	LOGICAL STORAGE		
	DEVICE		
EMC IP	A process that utilizes	17/113237	12/7/2020
Holding	machine learning based		
Company	constructs towards		
LLC	compressing binary files		
	in a storage array		
EMC IP	environment.	17/114042	12/7/2020
	METHOD, ELECTRONIC DEVICE	1//114042	12///2020
Holding	AND COMPUTER		
	AND COMI OTEK		l

Company	PROGRAM PRODUCT		
LLC	FOR STORAGE		
LEC	MANAGEMENT		
EMC IP	TECHNIQUES FOR	17/112345	12/4/2020
Holding	IDENTIFYING	17/1123 (3	12/ 1/2020
Company	MISCONFIGURA TIONS		
LLC	AND EVALUATING		
	AND DETERMINING		
	STORAGE TIER		
	DISTRIBUTIONS		
EMC IP	TECHNIQUES FOR	17/110672	12/3/2020
Holding	ESTIMATING	17/110072	12/3/2020
Company	DEDUPLICATION		
LLC	BETWEEN STORAGE		
	VOLUMES		
EMC IP	DATA STORAGE	17/110466	12/3/2020
Holding	OPTIMIZATIONS		
Company	USING VARIABLE		
LLC	SLICE SIZE		
EMC IP	CENTRALIZED	17/109336	12/2/2020
Holding	RETENTION AND		
Company	BACKUP DELETIONS		
LLC			
EMC IP	ORDERING EVENTS	17/109523	12/2/2020
Holding	WITHIN A STREAMING		
Company	DATA STORAGE		
LLC	PLATFORM		
EMC IP	SIGNAL EVENTS FOR	17/109546	12/2/2020
Holding	SYNCHRONIZATION		
Company	TO FACILITATE MODE		
LLC	CHANGES IN A		
	STREAMING DATA		
	STORAGE PLATFORM		
EMC IP	Client-side Compression	17/110024	12/2/2020
Holding			
Company			
LLC			
EMC IP	METHOD, DEVICE,	17/108640	12/1/2020
Holding	AND COMPUTER		
Company	PROGRAM PRODUCT		
LLC	FOR EDGE RESOURCE		
	AGGREGATION		
EMC IP	Method of "Outcome	17/107358	11/30/2020
Holding	Driven Data Exploration"		
Company	for data sets, business		
LLC	questions, and pipelines		
	based on similarity		
	mapping of business needs		
	and asset use overlap		
			1

EMC IP	ANY POINT IN TIME	17/107393	11/30/2020
Holding	REPLICATION TO THE		
Company LLC	CLOUD		
EMC IP	Multi-Party Prediction	17/106253	11/30/2020
Holding	Using Feature	177100233	11/30/2020
Company	Contribution Values		
LLC			
EMC IP	MANAGING HOST	17/106988	11/30/2020
Holding	CONNECTIVITY TO A		
Company	DATA STORAGE		
LLC	SYSTEM	17/10/070	11/20/2020
EMC IP	ARRAY DRIVEN FABRIC	17/106970	11/30/2020
Holding Company	PERFORMANCE		
LLC	NOTIFICATIONS FOR		
	MULTI-PA THING		
	DEVICES		
EMC IP	AUTOMATED	17/106788	11/30/2020
Holding	SEAMLESS		
Company	MIGRATION ACROSS		
LLC	ACCESS PROTOCOLS		
	FOR A LOGICAL STORAGE DEVICE		
EMC IP	Differential Snapshot	17/107229	11/30/2020
Holding	Without Array Support	177107227	11/30/2020
Company	warp.		
LLC			
EMC IP	Distributed backup using	17/106511	11/30/2020
Holding	local access		
Company			
LLC EMC IP	BOOT FROM SAN	17/106435	11/30/2020
Holding	OPERATION SUPPORT	17/100433	1113012020
Company	ON MULTI-PATHING		
LLC	DEVICES		
EMC IP	Explaining Random	17/107782	11/30/2020
Holding	Forests through Node		
Company	Labeling and Distribution		
LLC	of Subtrees	17/107796	11/20/2020
EMC IP Holding	Secret Storage Using Escrow Agents	17/107786	11/30/2020
Company	Lactow Agents		
LLC			
EMC IP	An efficient method to	17/107728	11/30/2020
Holding	build a backup scheduling		
Company	plan for a server aware of		
LLC	client availability and		
	criticality		

EMC IP Holding Company LLC	METHOD, DEVICE, AND PROGRAM PRODUCT FOR KEYSTROKE PATTERN ANALYSIS	17/106551	11/30/2020
EMC IP Holding Company LLC	Device Protection Using Configuration Lockdown Mode	17/105747	11/27/2020
EMC IP Holding Company LLC	Hardware System Protection Using Verification of Hardware Digital Identity Values	17/105749	11/27/2020
EMC IP Holding Company LLC	METHOD AND SYSTEM FOR MANAGING VIRTUAL DATACENTERS	17/104527	11/25/2020
EMC IP Holding Company LLC	Home-SmartMedia-MEC with Cloud Marketplace	17/104524	11/25/2020
EMC IP Holding Company LLC	Method of "Outcome Driven Data Exploration" for data sets, business questions, and pipelines based on similarity mapping of business needs and asset use overlap	17/104518	11/25/2020
EMC IP Holding Company LLC	METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR DEPLOYING APPLICATION	17/105030	11/25/2020
EMC IP Holding Company LLC	Automatically Determining Supported Capabilities in Server Hardware Devices	17/102690	11/24/2020
EMC IP Holding Company LLC	DATA PROTECTION MANAGEMENT OF APPLICATION INSTANCE EXECUTING IN ACCORDANCE WITH VIRTUAL VOLUME- BASED STORAGE SYSTEM	17/103184	11/24/2020
EMC IP Holding Company LLC	Hydratable Neural Networks for devices	17/102769	11/24/2020

EMC IP Holding Company	Managing restore workloads using Weibull Modulus	17/101326	11/23/2020
EMC IP Holding Company LLC	DYNAMICALLY MAPPING DATA CENTERS USING MICRO-LOCATION	17/101297	11/23/2020
EMC IP Holding Company LLC	RFIDSENSORS  METHOD, ELECTRONIC DEVICE, AND COMPUTER PROGRAM PRODUCT FOR ADJUSTING COMPUTING LOAD	17/101052	11/23/2020
EMC IP Holding Company LLC	CONTINUOUS REPLICATION AND GRANULAR APPLICATION LEVEL REPLICATION	16/953571	11/20/2020
EMC IP Holding Company LLC	SERVERLESS APPLICATION OPERATIONAL RECOVERY AND MANIFEST CREATION	16/953640	11/20/2020
EMC IP Holding Company LLC	DYNAMIC SLICE ASSIGNMENT IN A DISTRIBUTED STORAGE SYSTEM	16/952996	11/19/2020
EMC IP Holding Company LLC	SELECTIVE DEDUPLICATION IN A DISTRIBUTED STORAGE SYSTEM	16/952639	11/19/2020
EMC IP Holding Company LLC	METHOD AND APPROACH FOR PAGINATION OVER DATA STREAM WITH SLIDING WINDOW	16/951575	11/18/2020
EMC IP Holding Company LLC	METHOD AND APPROACH FOR PAGINATION OVER DATA STREAM WITH SLIDING WINDOW	16/951571	11/18/2020
EMC IP Holding Company LLC	Coordinated Data Protection for Multiple Networking Devices	17/099434	11/16/2020
EMC IP Holding	Multi-Cloud Framework for Authentication of Data Requests	17/097638	11/13/2020

Company LLC			
EMC IP Holding Company LLC	METHOD AND DEVICE FOR DEDUPLICATION	17/096237	11/12/2020
EMC IP Holding Company LLC	METHOD, ELECTRONIC DEVICE, AND COMPUTER PROGRAM PRODUCT FOR STORAGE MANAGEMENT	17/094430	11/10/2020
EMC IP Holding Company LLC	SYSTEMS AND METHODS FOR DEVICE THERMAL MANAGEMENT USING DYNAMIC RANKING OF DEVICE COOLING NEEDS	17/092812	11/9/2020
EMC IP Holding Company LLC	SYSTEM AND METHOD FOR RESILIENT BACKUP GENERATION	17/091199	11/6/2020
EMC IP Holding Company LLC	Multi-Cloud Framework for Data Protection Using Threshold-Based File Reconstruction	17/089801	11/5/2020
EMC IP Holding Company LLC	HOST BUS ADAPTOR (HBA) VIRTUALIZATION AWARENESS FOR EFFECTIVE INPUT- OUTPUT LOAD BALANCING	17/089516	11/4/2020
EMC IP Holding Company LLC	Slab Memory Allocator with Dynamic Buffer Resizing	17/088192	11/3/2020
EMC IP Holding Company LLC	ENVIRONMENT INDEPENDENT DATA PROTECTION IN A HIGHLY AVAILABLE DATA SYSTEM	17/086866	11/2/2020

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