

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6729362

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	FIRST LIEN SECURITY AGREEMENT
SEQUENCE:	1

CONVEYING PARTY DATA

Name	Execution Date
CUBIC CORPORATION	05/25/2021
PIXIA CORP.	05/25/2021
NUVOTRONICS, INC.	05/25/2021

RECEIVING PARTY DATA

Name:	BARCLAYS BANK PLC
Street Address:	745 SEVENTH AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10019

PROPERTY NUMBERS Total: 416

Property Type	Number
Application Number:	10081556
Application Number:	11190352
Application Number:	12247634
Application Number:	12142661
Application Number:	12260935
Application Number:	13473384
Application Number:	12265457
Application Number:	12483110
Application Number:	13735226
Application Number:	12503746
Application Number:	12715320
Application Number:	12825177
Application Number:	13217483
Application Number:	13240530
Application Number:	13023673
Application Number:	13789351
Application Number:	13096127

PATENT

Property Type	Number
Application Number:	13096745
Application Number:	13617436
Application Number:	13945537
Application Number:	13906068
Application Number:	13742122
Application Number:	14220591
Application Number:	14062689
Application Number:	14256346
Application Number:	14555307
Application Number:	15382023
Application Number:	14256501
Application Number:	14046329
Application Number:	14256871
Application Number:	09407054
Application Number:	14158015
Application Number:	14151737
Application Number:	14562414
Application Number:	14218730
Application Number:	14326932
Application Number:	14524595
Application Number:	14526963
Application Number:	14610097
Application Number:	14695404
Application Number:	14695339
Application Number:	14695363
Application Number:	14695382
Application Number:	14678296
Application Number:	14678524
Application Number:	14463383
Application Number:	15208356
Application Number:	14700403
Application Number:	14700425
Application Number:	14822411
Application Number:	14823626
Application Number:	14935269
Application Number:	14960088
Application Number:	15058487
Application Number:	12346360

Property Type	Number
Application Number:	15099097
Application Number:	15184736
Application Number:	15891196
Application Number:	15244631
Application Number:	15666069
Application Number:	15340693
Application Number:	15065724
Application Number:	15065732
Application Number:	15965381
Application Number:	15093237
Application Number:	29566667
Application Number:	29566670
Application Number:	15498899
Application Number:	15487650
Application Number:	15595192
Application Number:	12178724
Application Number:	12836178
Application Number:	11893064
Application Number:	10429442
Application Number:	15909737
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Application Number:	15820925
Application Number:	16018781
Application Number:	15830430
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Application Number:	16056937
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Application Number:	16128244
Application Number:	16293347
Application Number:	16033910

Property Type	Number
Application Number:	16113245
Application Number:	11996419
Application Number:	12520858
Application Number:	13528943
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Application Number:	16170565
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Application Number:	16250257
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Application Number:	13609128
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Application Number:	16515356
Application Number:	14958774
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Application Number:	14662288
Application Number:	14194162
Application Number:	14194280
Application Number:	17088219
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Application Number:	16044891
Application Number:	16032886
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Application Number:	16100750
Application Number:	16101933
Application Number:	16395033
Application Number:	16395807

Property Type	Number
Application Number:	16395826
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Application Number:	16058343
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Application Number:	14680345
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Application Number:	16367472
Application Number:	14211407
Application Number:	12608870
Application Number:	12005936
Application Number:	14253061
Application Number:	13176740
Application Number:	16849088
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Application Number:	16997176
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Application Number:	63014584
Application Number:	63018949
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Application Number:	10243794
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Application Number:	10243273
Application Number:	12237870
Application Number:	12568250
Application Number:	12784663
Application Number:	13233682
Application Number:	13233647
Application Number:	13621422
Application Number:	13963449
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Application Number:	13963908
Application Number:	13233706
Application Number:	13315998
Application Number:	14273096
Application Number:	14279785
Application Number:	14279702
Application Number:	14509547

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Application Number:	13683767
Application Number:	13797997
Application Number:	14577265
Application Number:	13779275
Application Number:	13774290
Application Number:	13232565
Application Number:	13791822
Application Number:	14710163
Application Number:	13779251
Application Number:	14806143
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Application Number:	13779303
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Application Number:	15287168
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Application Number:	14944919
Application Number:	15595483
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Application Number:	15187265
Application Number:	16175228
Application Number:	16409210
Application Number:	15912935
Application Number:	15977052
Application Number:	15444954
Application Number:	15142720
Application Number:	16526480
Application Number:	15405782
Application Number:	16431371
Application Number:	16748239
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Application Number:	16840231
Application Number:	16903224
Application Number:	17100614
Application Number:	12005885
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Application Number:	14334374
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Application Number:	15532291
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Application Number:	15811038
Application Number:	15074083
Application Number:	15111252
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Application Number:	16727287
Application Number:	29452734
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Application Number:	29448281
Application Number:	29529799
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Application Number:	10078850
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Application Number:	10077047

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Application Number:	10225547
Application Number:	10227777
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Application Number:	10941667
Application Number:	10427061
Application Number:	10941668
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Application Number:	11189511
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Application Number:	12043579
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Property Type	Number
Application Number:	11779213
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Application Number:	13942945
Application Number:	11194992
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Application Number:	13186148
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Application Number:	14156378
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Application Number:	13610127
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Application Number:	14657131
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Application Number:	14680568
Application Number:	15230944

Property Type	Number
Application Number:	15218574
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Application Number:	13948992
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Application Number:	15065701
Application Number:	15584542
Application Number:	14680557
Application Number:	15264795
Application Number:	15257391
Application Number:	15222115
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Application Number:	14232396
Application Number:	14825080
Application Number:	14605850
Application Number:	14695298
Application Number:	15602353
Application Number:	15330117
Application Number:	15195835
Application Number:	14567655
Application Number:	15355553
Application Number:	15919526
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Application Number:	15895794
Application Number:	15616355
Application Number:	15405799
Application Number:	15782589
Application Number:	16148156
Application Number:	15919913
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Application Number:	15079851
Application Number:	16025759
Application Number:	16019242
Application Number:	16052424
Application Number:	16050892
Application Number:	16116564
Application Number:	16101693

Property Type	Number
Application Number:	10407454
Application Number:	11931892
Application Number:	12062390
Application Number:	11367053
Application Number:	10659804
Application Number:	14543761
Application Number:	16681369
Application Number:	13584457
Application Number:	12332200
Application Number:	12716154
Application Number:	12266072
Application Number:	29452733
Application Number:	12332206
Application Number:	11780414
Application Number:	12136701
Application Number:	14661653
Application Number:	14450076
Application Number:	10263930
Application Number:	10989360

CORRESPONDENCE DATA

Fax Number: (800)914-4240

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: 800-713-0755

Email: Michael.Violet@wolterskluwer.com, ECarrera@cahill.com

Correspondent Name: CT CORPORATION

Address Line 1: 4400 EASTON COMMONS WAY

Address Line 2: SUITE 125

Address Line 4: COLUMBUS, OHIO 43219

NAME OF SUBMITTER:	ELAINE CARRERA
SIGNATURE:	/Elaine Carrera/
DATE SIGNED:	05/26/2021

Total Attachments: 17

source=04. Atlas - Patent Security Agreement (1L)_#page1.tif
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RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Cubic Corporation
Pixia Corp.
Nuvotronics, Inc.

2. Name and address of receiving party(ies)

Name: Barclays Bank PLC

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) May 25, 2021

☐ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☒ Other First Lien Security Agreement

Street Address: 745 Seventh Avenue

City: New York

State: NY

Country: USA

Zip: 10019

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

See Schedule I

See Schedule I

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Elaine Carrera, Senior Paralegal

Internal Address: _____

Street Address: c/o Cahill Gordon & Reindel LLP,
32 Old Slip

City: New York

State: NY

Zip: 10005

Phone Number: (212) 701-3365

Docket Number: _____

Email Address: ecarrera@cahill.com

6. Total number of applications and patents involved: 416

7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____

☐ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:

Elaine Carrera
Signature

May 25, 2021

Date

Elaine Carrera

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

17

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

FIRST LIEN PATENT SECURITY AGREEMENT

This First Lien Patent Security Agreement, dated as of May 25, 2021 (this “**Patent Security Agreement**”), by Cubic Corporation, a Delaware corporation (“**Cubic**”), Pixia Corp., a Delaware corporation (“**Pixia**”) and Nuvotronics, Inc., a Delaware corporation (together with Cubic and Pixia, the “**Grantors**” and each, individually, a “**Grantor**”), in favor of BARCLAYS BANK PLC, in its capacity as administrative agent for the Secured Parties (as defined in the Security Agreement (as defined below)) (in such capacity, together with its successors and assigns, the “**Administrative Agent**”).

WITNESSETH:

WHEREAS, the Grantors are party to a First Lien Security Agreement, dated as of May 25, 2021 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”), among Atlas CC Holding LLC, a Delaware limited liability company (“**Holdings**”), Atlas CC Acquisition Corp., a Delaware corporation (“**Atlas**”), CUBIC DEFENSE APPLICATIONS, INC., a California corporation (“**CDAI**”), the other Grantors party thereto and the Administrative Agent, pursuant to which the Grantors are required to execute and deliver this Patent Security Agreement.

NOW, THEREFORE, in consideration of the premises and to induce the Lenders to extend credit, and the L/C Issuers to issue Letters of Credit, to the Borrowers, each Grantor hereby agrees with the Administrative Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. Each Grantor hereby pledges and grants to the Administrative Agent for the benefit of the Secured Parties a lien on and security interest in and to all of its right, title and interest in, to and under all the following Collateral (excluding any and all Excluded Assets) of such Grantor:

(a) Patents of such Grantor, including those listed on Schedule I attached hereto and all proceeds and products of the foregoing.

The Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in furtherance, and not in limitation, of the security interest granted to the Administrative Agent pursuant to the Security Agreement and each Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

Termination. Upon the termination of the Security Agreement in accordance with Section 6.11 thereof, the Administrative Agent shall, at the expense of the Grantors, execute, acknowledge, and deliver to the Grantors an instrument in writing in recordable form releasing the lien on and security interest in the Patents under this Patent Security Agreement.

Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts.

[Signature pages follow.]

IN WITNESS WHEREOF, each party has caused this Patent Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

CUBIC CORPORATION

By: *Anshooman Aga*
Anshooman Aga (May 3, 2021 13:42 PDT)
Name: Anshooman Aga
Title: Chief Financial Officer

PIXIA CORP.

By: *Anshooman Aga*
Anshooman Aga (May 3, 2021 13:42 PDT)
Name: Anshooman Aga
Title: Chief Financial Officer

NUVOTRONICS, INC.

By: *Anshooman Aga*
Anshooman Aga (May 3, 2021 13:42 PDT)
Name: Anshooman Aga
Title: Chief Financial Officer

BARCLAYS BANK PLC, as
Administrative Agent

By: 
Name: Brad Aston
Title: Managing Director

Schedule I
to
PATENT SECURITY AGREEMENT
PATENTS AND PATENT APPLICATIONS

Patent Registrations and Applications:

Title	Application Number	Patent Number	Owner
TRANSIT BEST FARE SYSTEM AND METHOD	10/081,556	7,124,118	Cubic Corporation
SHAPED-OFFSET QUADRATURE AMPLITUDE MODIFICATION METHODS AND APPARATUS	11/190,352	7,529,300	Cubic Corporation
BEAM DEFLECTION USING PZT RESONANCE	12/247,634	7,864,408	Cubic Corporation
COMBINATIONAL PZT AND MEMS BEAM STEERING	12/142,661	7,898,729	Cubic Corporation
RESONANT QUANTUM WELL MODULATOR DRIVER	12/260,935	8,027,591	Cubic Corporation
DIGITAL BEAMFORMING ANTENNA AND DATALINK ARRAY	13/473,384	8,730,102	Cubic Corporation
DIGITAL BEAMFORMING ANTENNA AND DATALINK ARRAY	12/265,457	8,203,483	Cubic Corporation
CARD READER	12/483,110	8,113,435	Cubic Corporation
PROTECTION OF NEAR-FIELD COMMUNICATION EXCHANGES	13/735,226	9,509,436	Cubic Corporation
SMARTCARD PROTOCOL TRANSMITTER	12/503,746	8,350,668	Cubic Corporation
CONTACTLESS SMARTCARD AUTHENTICATION	12/715,320	8,240,561	Cubic Corporation
GLOBAL ASSET TRACKING ENTERPRISE SYSTEM	12/825,177	8,026,792	Cubic Corporation
ADVANCED DECISION LOGIC FOR TRANSIT ACCEPTANCE	13/217,483	9,406,064	Cubic Corporation
WIDE FIELD OF VIEW OPTICAL RECEIVER	13/240,530	8,558,337	Cubic Corporation
LOW POWER WIRELESS NETWORK FOR TRANSPORTATION AND LOGISTICS	13/023,673	9,253,635	Cubic Corporation
LOW POWER WIRELESS NETWORK FOR AD-HOC APPLICATIONS	13/789,351	8,837,342	Cubic Corporation
LOW POWER WIRELESS NETWORK FOR LOGISTICS AND TRANSPORTATION APPLICATIONS	13/096,127	8,416,726	Cubic Corporation
ACCELERATED REJOINING IN LOW POWER WIRELESS NETWORKING FOR LOGISTICS AND TRANSPORTATION APPLICATIONS	13/096,745	8,681,674	Cubic Corporation
SECURE KEY SELF-GENERATION	13/617,436	8,832,781	Cubic Corporation
COMPACT LASER SOURCE	13/945,537	9,590,385	Cubic Corporation
VIDEO TICKET OFFICE	13/906,068	9,118,802	Cubic Corporation
TRANSMISSION FILTERING PROCESSOR ARCHITECTURE	13/742,122	9,356,898	Cubic Corporation
SIGNAL ENHANCEMENT FOR LOAD MODULATION	14/220,591	8,923,921	Cubic Corporation
RELIABLE MESSAGE DELIVERY IN MESH NETWORKS	14/062,689	8,831,008	Cubic Corporation
RESERVATION SCHEDULER FOR REAL-TIME OPERATING SYSTEMS IN WIRELESS SENSOR NETWORKS	14/256,346	9,292,344	Cubic Corporation
PAYMENT RECONCILIATION IN MIXED-OWNERSHIP LOW-POWER MESH NETWORKS	14/555,307	9,544,797	Cubic Corporation
PAYMENT RECONCILIATION IN MIXED-OWNERSHIP LOW-POWER MESH NETWORKS	15/382,023	9,992,658	Cubic Corporation
PAYMENT RECONCILIATION IN MIXED-OWNERSHIP LOW-POWER MESH NETWORKS	14/256,501	8,929,246	Cubic Corporation
PACKET SEQUENCE NUMBER TRACKING FOR DUPLICATE PACKET DETECTION	14/046,329	8,761,181	Cubic Corporation
PROXIMITY OUT-OF-BAND MOBILE DEVICE TO DEVICE COMMUNICATION BY MEANS OF LOW-POWER MESH NETWORKS	14/256,871	9,215,608	Cubic Corporation
PUBLIC TRANSIT VEHICLE ARRIVAL INFORMATION SYSTEM	09/407,054	6,374,176 (Expired)	Cubic Corporation

Title	Application Number	Patent Number	Owner
NULL INTERFACE FEATURE IN WIRELESS MESH NETWORKING DEVICE	14/158,015	8,824,445	Cubic Corporation
NULL INTERFACE FEATURE IN WIRELESS MESH NETWORKING DEVICE	14/151,737	8,824,444	Cubic Corporation
EFFICIENT SIGNAL PROCESSING FOR RECEIVE AND TRANSMIT DBF ARRAYS	14/562,414	9,143,374	Cubic Corporation
EFFICIENT SIGNAL PROCESSING FOR RECEIVE AND TRANSMIT DBF ARRAYS	14/218,730	9,031,165	Cubic Corporation
SHARED VIDEO VENDOR	14/326,932	9,824,522	Cubic Corporation
POSITIONING SYSTEM WITH WIRELESS BEACONS THAT VARY TRANSMISSION POWER LEVELS	14/524,595	8,965,411	Cubic Corporation
FARE COLLECTION USING WIRELESS BEACONS	14/526,963	9,317,976	Cubic Corporation
PASSENGER BEHAVIOUR RATING FOR IMPROVED RISK MANAGEMENT IN TRANSIT SYSTEMS	14/610,097	10,049,363	Cubic Corporation
REMOTE EXPERT MODE INVOCATION	14/695,404	9,373,118	Cubic Corporation
REMOTE SCREEN AND TOUCH SHARING	14/695,339	9,355,401	Cubic Corporation
CONTEXTUAL USER INTERFACE ELEMENTS FROM EXTERNAL TRIGGERS	14/695,363	9,373,117	Cubic Corporation
AUTOMATIC AUDIO LEVEL ADJUSTMENT FOR VIDEO VENDING MACHINES	14/695,382	9,317,854	Cubic Corporation
MICRO VIDEO ASSISTANT	14/678,296	9,400,981	Cubic Corporation
ANOMALOUS PHENOMENA DETECTOR	14/678,524	9,466,196	Cubic Corporation
CARD DETECTION AND SELECTION	14/463,383	9,323,964	Cubic Corporation
FAILSAFE OPERATION FOR UNMANNED GATELINES	15/208,356	9,626,818	Cubic Corporation
FAILSAFE OPERATION FOR UNMANNED GATELINES	14/700,403	9,394,740	Cubic Corporation
ADAPTIVE GATE WALKWAY FLOOR DISPLAY	14/700,425	9,582,941	Cubic Corporation
DETECTING AND IDENTIFYING FARE EVASION AT AN ACCESS CONTROL POINT	14/822,411	9,275,535	Cubic Corporation
BIOMETRIC PAYMENT IN TRANSIT SYSTEMS	14/823,626	10,304,059	Cubic Corporation
TRANSIT VENDING MACHINE WITH AUTOMATIC USER INTERFACE ADAPTION	14/935,269	9,910,489	Cubic Corporation
CREDIT AND DEBIT FRAUD CARD USAGE MONITORING FOR TRANSIT	14/960,088	10,049,364	Cubic Corporation
FACILITATING CASH PAYMENT FOR TRANSIT MOBILE APPLICATIONS	15/058,487	9,760,880	Cubic Corporation
MOBILE MODULAR COMMUNICATION SYSTEM	12/346,360	7,843,692	Cubic Corporation
DIDACTIC INFORMATION PORTAL SYSTEM	15/099,097	9,671,994	Cubic Corporation
RFID FOR FARE COLLECTION	15/184,736	10,282,920	Cubic Corporation
VISION-BASED FARE COLLECTION	15/891,196	10,121,297	Cubic Corporation
VISION-BASED FARE COLLECTION	15/244,631	9,972,149	Cubic Corporation
INTEGRATION OF POSITION SENSOR WITH RF READER	15/666,069	10,019,852	Cubic Corporation
INTEGRATION OF POSITION SENSOR WITH RF READER	15/340,693	9,786,100	Cubic Corporation
INTEGRATED WIND LASER RANGEFINDER RECEIVER	15/065,724	10,379,135	Cubic Corporation
OPTICAL SENSOR FOR RANGE FINDING AND WIND SENSING MEASUREMENTS	15/065,732	9,778,104	Cubic Corporation
LOW-COST RIFLE SCOPE DISPLAY ADAPTER	15/965,381	10,443,984	Cubic Corporation
RIFLE SCOPE TARGETING DISPLAY ADAPTER MOUNT	15/093,237	9,791,244	Cubic Corporation
OPTICAL READER FOR ACCESS GATE	29/566,667	D825,567	Cubic Corporation
ACCESS GATE WITH OPTICAL READER	29/566,670	D825,781	Cubic Corporation
4D BARCODE	15/498,899	9,953,475	Cubic Corporation
AUTO-DIAGNOSTIC NFC READER	15/487,650	9,898,634	Cubic Corporation
IMPLICITLY TRUSTED TRAVEL TOKEN AUTHENTICATION	15/595,192	10,108,618	Cubic Corporation
INFLATION CONTROL APPARATUS FOR AN INFLATABLE OBJECT WITH TWO CHAMBERS	12/178,724	8,021,122	Cubic Corporation
ANTENNA POSITIONING SYSTEM	12/836,178	7,859,475	Cubic Corporation

Title	Application Number	Patent Number	Owner
ANTENNA POSITIONING SYSTEM	11/893,064	7,764,243	Cubic Corporation
INFLATABLE ANTENNA	10/429,442	6,963,315	Cubic Corporation
GROUND-BASED SATELLITE COMMUNICATION SYSTEM FOR A FOLDABLE RADIO WAVE ANTENNA	15/909,737	10,122,092	Cubic Corporation
GROUND-BASED SATELLITE COMMUNICATION SYSTEM FOR A FOLDABLE RADIO WAVE ANTENNA	15/068,384	9,912,070	Cubic Corporation
HANDS-FREE FARE GATE OPERATION	15/820,925	10,096,181	Cubic Corporation
INDIVIDUAL BROADBAND COMMUNICATIONS HUB FOR OPERATIONAL AND TRAINING ENVIRONMENTS	16/018,781	10,340,960	Cubic Corporation
INDIVIDUAL BROADBAND COMMUNICATIONS HUB FOR OPERATIONAL AND TRAINING ENVIRONMENTS	15/830,430	10,009,046	Cubic Corporation
MULTI-BEAM PHASED ARRAY ANTENNA FOR TRANSIT ACCESS	15/950,025	10,163,178	Cubic Corporation
TICKETING MACHINE ON A WALL	15/835,794	10,353,572	Cubic Corporation
MERCHANT BIDDING AND REWARDS ON CONSUMER INTENT	15/786,977	10,264,393	Cubic Corporation
ENVIRONMENTALLY SEALED SWIPING SPRING PIN CONNECTOR	15/975,535	10,243,294	Cubic Corporation
DUAL PURPOSE LATCH	15/975,531	10,128,612	Cubic Corporation
INSTRUMENTED TRAINING MORTAR SYSTEM	16/430,112	10,690,446	Cubic Corporation
INSTRUMENTED TRAINING MORTAR SYSTEM	15/903,558	10,352,655	Cubic Corporation
INDIRECT FIRE MISSION TRAINING SYSTEM	16/056,937	10,907,935	Cubic Corporation
INDIRECT FIRE MISSION TRAINING SYSTEM	15/813,909	10,107,595	Cubic Corporation
SYSTEMS AND METHODS FOR USING AUTONOMOUS VEHICLES IN TRAFFIC	15/720,219	10,032,373	Cubic Corporation
PASSENGER CLASSIFICATION-BASED AUTONOMOUS VEHICLE ROUTING	16/029,218	10,152,053	Cubic Corporation
IMMERSIVE VIRTUAL ENVIRONMENT (IVE) TOOLS AND ARCHITECTURE	16/128,244	10,691,303	Cubic Corporation
TRACKED TICKET VALIDATION AND FEEDBACK SYSTEM	16/293,347	10,497,193	Cubic Corporation
TRACKED TICKET VALIDATION AND FEEDBACK SYSTEM	16/033,910	10,600,264	Cubic Corporation
REMOTE OPERATION OF NON-DRIVING FUNCTIONALITY AUTONOMOUS VEHICLES	16/113,245	10,246,015	Cubic Corporation
ANTENNA ARRANGEMENT	11/996,419	8,106,826	Cubic Corporation
ANTENNA SYSTEM	12/520,858	8,417,295	Cubic Corporation
WIRELESS COMMUNICATION SYSTEM	13/528,943	8,559,330	Cubic Corporation
ANTENNA SYSTEM	10/559,717	7,423,591	Cubic Corporation
RELAY	16/095,615	10,623,085	Cubic Corporation
ENCRYPTED REVERSE BIOMETRIC TOKEN VALIDATION	16/138,530		Cubic Corporation
TRIGGERED NEURAL GATE INTERFACE	16/170,565	10,304,275	Cubic Corporation
CUBOID INERTIAL MEASUREMENT UNIT	16/250,796	10,473,464	Cubic Corporation
FREQUENCY RE-BANDER WITH UE AND DOPPLER CORRECTION	16/250,257	10,931,317	Cubic Corporation
FREQUENCY RE-BANDER WITH UE AND POWER EFFICIENCY FEATURES	16/250,589	10,404,223	Cubic Corporation
LIGHT GUN BREECH POSITION DETECTOR	16/249,608	10,634,442	Cubic Corporation
SECONDARY CARD TAP SYSTEM	16/268,140	10,424,037	Cubic Corporation
TRANSIT GATELINE INCORPORATING DISPLAY-INTEGRATED BARRIERS	16/196,264	10,319,164	Cubic Corporation
ENHANCING THE RESOLUTION AND QUALITY OF SEQUENTIAL DIGITAL IMAGES	13/609,128	8,537,278	Cubic Corporation
ENHANCING THE RESOLUTION AND QUALITY OF SEQUENTIAL DIGITAL IMAGES	11/678,998	8,279,341	Cubic Corporation
OBJECT-LEVEL GROUPING AND IDENTIFICATION FOR TRACKING OBJECTS IN A VIDEO	15/289,888	9,898,677	Cubic Corporation
DYNAMICALLY RESPONSIVE REAL-TIME POSITIONING FEEDBACK SYSTEM	16/421,766	10,634,501	Cubic Corporation
MULTI-WAVELENGTH RISLEY PRISMS FOR LASER BORE-SIGHTING	16/515,356	10,571,677	Cubic Corporation

Title	Application Number	Patent Number	Owner
UNIVERSAL DEVICE MANAGEMENT AND CONTROL	14/958,774	9,641,738	Cubic Corporation
ADAPTIVE GATELINE CONFIGURATION	16/562,115	10,725,455	Cubic Corporation
WIRELESS VEHICLE DETECTION SYSTEM AND ASSOCIATED METHODS HAVING ENHANCED RESPONSE TIME	14/475,916	9,020,742	Cubic Corporation
WIRELESS VEHICLE DETECTION SYSTEM AND ASSOCIATED METHODS HAVING ENHANCED RESPONSE TIME	14/662,288	9,412,270	Cubic Corporation
WIRELESS VEHICLE DETECTION SYSTEM AND ASSOCIATED METHODS HAVING ENHANCED RESPONSE TIME	14/194,162	8,855,902	Cubic Corporation
WIRELESS VEHICLE DETECTOR AGGREGATOR AND INTERFACE TO CONTROLLER AND ASSOCIATED METHODS	14/194,280	9,489,840	Cubic Corporation
METHOD AND SYSTEM TO CONTROL TRAFFIC SPEED THROUGH INTERSECTIONS	17/088,219		Cubic Corporation
METHOD AND SYSTEM TO CONTROL TRAFFIC SPEED THROUGH INTERSECTIONS	16/592,139	10,878,697	Cubic Corporation
SYSTEM AND METHOD OF ADAPTIVE CONTROLLING OF TRAFFIC USING CAMERA DATA	16/030,396	10,373,489	Cubic Corporation
SYSTEM AND METHOD FOR CONTROLLING VEHICULAR TRAFFIC ADAPTIVE TRAFFIC CONTROL USING OBJECT TRACKING AND IDENTITY DETAILS	16/044,891	10,636,299	Cubic Corporation
SYSTEM AND METHOD FOR CONTROLLING VEHICULAR TRAFFIC ADAPTIVE TRAFFIC CONTROL USING OBJECT TRACKING AND IDENTITY DETAILS	16/032,886	10,636,298	Cubic Corporation
SYSTEM AND METHOD FOR MANAGING TRAFFIC BY PROVIDING RECOMMENDATIONS TO CONNECTED OBJECTS	16/058,106		Cubic Corporation
SYSTEM AND METHOD OF NAVIGATING VEHICLES	16/059,814	10,803,740	Cubic Corporation
ADAPTIVE TRAFFIC OPTIMIZATION USING UNMANNED AERIAL VEHICLES	16/059,886	10,395,522	Cubic Corporation
SYSTEM AND METHOD OF ADAPTIVE TRAFFIC MANAGEMENT AT AN INTERSECTION	16/058,214		Cubic Corporation
SYSTEM AND METHOD OF ADAPTIVE TRAFFIC MANAGEMENT AT AN INTERSECTION	16/100,750		Cubic Corporation
ADAPTIVE OPTIMIZATION OF NAVIGATIONAL ROUTES USING TRAFFIC DATA	16/101,933	10,935,388	Cubic Corporation
MODIFYING OPERATIONAL SETTINGS OF A TRAFFIC SIGNAL	16/395,033		Cubic Corporation
CORRECTING LOCATION DATA OF CONNECTED VEHICLE	16/395,807	10,775,473	Cubic Corporation
OPTIMIZING THE CONTENT OF A DIGITAL OMNIDIRECTIONAL IMAGE	16/395,826		Cubic Corporation
ADAPTIVELY CONTROLLING TRAFFIC MOVEMENTS FOR PEDESTRIAN SAFETY	16/395,853		Cubic Corporation
PEDESTRIAN WALKING ROUTES USING A SMART TRAFFIC CONTROL SYSTEM	16/395,038	10,629,068	Cubic Corporation
OPTIMIZING EMERGENCY SERVICES LOGISTICS USING DATA FROM A SMART TRAFFIC CONTROL SYSTEM	16/395,878		Cubic Corporation
ADAPTIVE TRAFFIC CONTROL BASED ON WEATHER CONDITIONS	16/395,079	10,885,779	Cubic Corporation
BROADCASTING DETAILS OF OBJECTS AT AN INTERSECTION	16/395,137		Cubic Corporation
ADAPTIVELY CONTROLLING TRAFFIC MOVEMENTS FOR DRIVER SAFETY	16/395,088		Cubic Corporation
SYSTEM AND METHOD OF ADAPTIVE CONTROLLING OF TRAFFIC USING ZONE BASED OCCUPANCY	16/058,343	10,559,198	Cubic Corporation
BROADBAND ANTENNA ARRAY	16/076,354		Cubic Corporation
COAXIAL TRANSMISSION LINE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	13/015,671	8,542,079	Cubic Corporation
COAXIAL TRANSMISSION LINE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	14/029,252	9,000,863	Cubic Corporation
A TRANSITION STRUCTURE BETWEEN A RECTANGULAR COAXIAL MICROSTRUCTURES AND A CYLINDRICAL COAXIAL CABLE USING STEP CHANGES IN CENTER CONDUCTORS THEREOF	14/680,345	9,570,789	Cubic Corporation
COAXIAL TRANSMISSION LINE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	12/077,546	7,898,356	Cubic Corporation

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COAXIAL WAVEGUIDE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	11/316,417	7,148,772	Cubic Corporation
COAXIAL WAVEGUIDE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	11/637,629	7,405,638	Cubic Corporation
COAXIAL WAVEGUIDE MICROSTRUCTURES HAVING AN ACTIVE DEVICE AND METHODS OF FORMATION THEREOF	13/085,124	8,742,874	Cubic Corporation
COAXIAL WAVEGUIDE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	10/793,574	7,012,489	Cubic Corporation
CTE COMPENSATION FOR WAFER-LEVEL AND CHIP-SCALE PACKAGES AND ASSEMBLIES	15/651,531	10,847,469	Cubic Corporation
INTEGRATED CHIP SCALE PACKAGES	15/829,288	10,319,654	Cubic Corporation
MICROWAVE/MILLIMETER-WAVE WAVEGUIDE TO CIRCUIT BOARD CONNECTOR	16/369,701		Cubic Corporation
MULTI-LAYER DIGITAL ELLIPTIC FILTER AND METHOD	15/133,422	9,608,303	Cubic Corporation
MULTI-LAYER DIGITAL ELLIPTIC FILTER AND METHOD	14/161,987	9,325,044	Cubic Corporation
MICROSTRUCTURE INCLUDING MICROSTRUCTURAL WAVEGUIDE ELEMENTS AND/OR IC CHIPS THAT ARE MECHANICALLY INTERCONNECTED TO EACH OTHER	14/211,749	9,306,255	Cubic Corporation
SUBSTRATE-FREE INTERCONNECTED ELECTRONIC MECHANICAL STRUCTURAL SYSTEMS	16/367,472		Cubic Corporation
SUBSTRATE-FREE INTERCONNECTED ELECTRONIC SUB- SYSTEMS USING A SPRING CONFIGURATION	14/211,407	9,306,254	Cubic Corporation
THREE-DIMENSIONAL MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	12/608,870	8,031,037	Cubic Corporation
THREE-DIMENSIONAL MICROSTRUCTURES AND METHODS OF FORMATION THEREOF	12/005,936	7,656,256	Cubic Corporation
THREE-DIMENSIONAL MICROSTRUCTURES	14/253,061	9,136,575	Cubic Corporation
THREE-DIMENSIONAL MICROSTRUCTURES	13/176,740	8,698,577	Cubic Corporation
MEDIA ENGAGEMENT VERIFICATION IN TRANSIT SYSTEMS	16/849,088		Cubic Corporation
HUMAN-AIDED GEO-RECTIFICATION OF GEOSPATIAL METADATA IN VIDEO USING A GRAPHICAL INTERFACE	16/660,229	10,907,977	Cubic Corporation
REAL-TIME MOBILITY POLICY ENGINE	16/938,506		Cubic Corporation
SELF-INITIALIZING MACHINE VISION SENSORS	16/998,230		Cubic Corporation
UNIVERSAL LASERLESS TRAINING ARCHITECTURE	16/994,345		Cubic Corporation
AUTOMATED TRAINING NETWORK INSTRUMENTATION ASSOCIATION	63/104,204		Cubic Corporation
GEOMETRICALLY PAIRED LIVE INSTRUMENTATION TRAINING HAND GRENADE	63/104,206		Cubic Corporation
ADAPTIVE TRANSIT RESOURCE ALLOCATION	17/074,157		Cubic Corporation
PROBABILISTIC LOW-POWER POSITION AND ORIENTATION	16/994,152		Cubic Corporation
MULTI-ELEMENT ANTENNA CONFORMED TO A CONICAL SURFACE	16/997,176		Cubic Corporation
RADIO GATEWAY TRANSMISSION FAILURE NOTIFICATION	17/114,208		Cubic Corporation
SHORT RANGE RADAR USE IN TRANSPORTATION ACCESS SYSTEMS	17/197,880		Cubic Corporation
CHIRP SIGNAL FILTERING	62/957,399		Cubic Corporation
TRACK AND PAY HANDSFREE GATE	17/159,966		Cubic Corporation
MOBILITY AS A SERVICE MARKETPLACE	63/019,288		Cubic Corporation
FOLDING BARRIER GATE	63/034,652		Cubic Corporation
AUTO CALIBRATING RANGE SENSING GATE	17/152,533		Cubic Corporation
SELF-LEARNING GATE PADDLES FOR SAFE OPERATION	17/152,504		Cubic Corporation
SELF-LEARNING GATE PADDLES FOR SAFE OPERATION	62/962,454		Cubic Corporation
DIGITAL PHASE SHIFTER	17/224,961		Cubic Corporation
ADAPTIVE GATELINE MOTOR CONTROL	63/015,823		Cubic Corporation
HAND HELD OBSERVER TRAINER	63/035,880		Cubic Corporation

Title	Application Number	Patent Number	Owner
TACTICAL SUPPORT STRUCTURE FOR TRACKING SPHERICAL SATELLITE ANTENNA	63/014,575		Cubic Corporation
COMBINED SLIP RING ROTARY JOINT FOR SATELLITE TRACKING ANTENNA BASE	63/014,581		Cubic Corporation
MODULAR TRACKING BASE FOR SPHERICAL ANTENNA POINTING SYSTEM	63/014,584		Cubic Corporation
CONTROL SOFTWARE FOR SATELLITE TRACKING AND AUTO-POINTING WITH A SPHERICAL SATELLITE ANTENNA	63/018,949		Cubic Corporation
METHOD AND PROCESS FOR SUPPORTING BIN RANGE CALCULATION IN A PIN TRANSACTION SECURITY POINT OF INTERACTION (PTS POI) DEVICE THAT ACCEPTS AND PROCESSES EUROPAY, MASTERCARD AND VISA (EMV) TRANSACTIONS	63/050,459		Cubic Corporation
DYNAMIC FARE AGGREGATION BASED-UPON RIDER RISK SCORING	63/086,383		Cubic Corporation
Mobility as a Service Integration (MaaS Integration)	63/142,473		Cubic Corporation
Image display system	10/243794	7119811	Pixia Corp.
Image display system	11/123146	7607106	Pixia Corp.
High resolution display of large electronically stored or communicated images with real time roaming	10/243273	7840908	Pixia Corp.
Large format video archival, storage, and retrieval system and method	12/237870	8290346	Pixia Corp.
Image display system	12/568250	8341548	Pixia Corp.
Method and system for determining statistical data for image pixels having a higher bit depth per band	12/784663	8411970	Pixia Corp.
Method of processing a viewport within large format imagery	13/233682	8532383	Pixia Corp.
Method of creating a container file for large format imagery and organizing data within the container file	13/233647	8532397	Pixia Corp.
Large format video archival, storage, and retrieval system	13/621422	8644690	Pixia Corp.
Method of processing a viewport within large format imagery	13/963449	8755609	Pixia Corp.
Container file for large format imagery and method of creating the container file and organizing data within the container file	13/963727	8768106	Pixia Corp.
Method of inserting an image into a container file	13/963908	8885940	Pixia Corp.
Method of making a video stream from a plurality of viewports within large format imagery	13/233,706	8,949,913	Pixia Corp.
Image Display System	13/315998	8984438	Pixia Corp.
Method of processing a viewport within large format imagery	14/273096	9058642	Pixia Corp.
Method of creating or updating a container file for storing image files	14/279785	9123092	Pixia Corp.
Container file for large format imagery and method of creating the container file and organizing data within the container file	14/279702	9129348	Pixia Corp.
Method of inserting an image into a container file	14/509547	9129349	Pixia Corp.
Image display system	13/683767	9177525	Pixia Corp.
Method and system for accessing data by a client from a server	13/797997	9178931	Pixia Corp.
Method of making a video stream from a plurality of viewports within large format imagery	14/577265	9218637	Pixia Corp.
Method and system of retrieving data in a data file	13/779,275	9,239,855	Pixia Corp.
Method and system for storing and retrieving wide-area motion imagery frames as objects on an object storage device	13/774290	9396514	Pixia Corp.
Method and system for encoding and decoding multiple wide-area surveillance area-of-interest video codestreams	13/232565	9407876	Pixia Corp.
Method and system for providing a federated wide area motion imagery collection service	13/791822	9436708	Pixia Corp.
Method and system of processing a viewport within large format imagery	14/710163	9477996	Pixia Corp.
Method and system for storing statistical data of an image	13/779251	9489729	Pixia Corp.
Method of creating or updating a container file for storing image files	14/806143	9501806	Pixia Corp.
Method and system of storing data files	13/779390	9584584	Pixia Corp.
Method and system of requesting information from a server computer	13/779303	9596288	Pixia Corp.

Title	Application Number	Patent Number	Owner
Method and system for transmitting multiple wide-area surveillance area-of-interest video codestreams	15/192,292	9,621,904	Pixia Corp.
System and method for retrieving an image containing image statistical data	15/287168	9684848	Pixia Corp.
Method and system for wide area motion imagery discovery using KML	13/784726	9703807	Pixia Corp.
Method and system for providing a federated wide area motion imagery collection service	15/612731	9881029	Pixia Corp.
Method and system of managing data files	15/297987	9947072	Pixia Corp.
Method and system for retrieving data in a data file	14/944919	9998524	Pixia Corp.
System and method for storing hierarchical data related to an image	15/595483	10049123	Pixia Corp.
Method and system for providing a federated wide area motion imagery collection service	15/850069	10169375	Pixia Corp.
System and method for storing points of polygons related to an image	16/032401	10311098	Pixia Corp.
Method and system for storing and retrieving wide-area motion imagery frames as objects on an object storage device	15/187,265	10,346,947	Pixia Corp.
Method and system for providing a federated wide area motion imagery collection service	16/175228	10387483	Pixia Corp.
System and method for storing points of polygons related to an image	16/409210	10565254	Pixia Corp.
Method and system of managing data files	15/912935	10559059	Pixia Corp.
Method and system of retrieving data in a data file	15/977052	10606801	Pixia Corp.
Method and system for combining multiple area-of-interest video codestreams into a combined video codestream	15/444954	10681305	Pixia Corp.
Systems and methods of selecting a view from a plurality of cameras	15/142720	10725631	Pixia Corp.
Method and system for providing a federated wide area motion imagery collection service	16/526480	10866983	Pixia Corp.
Method and system of storing data files	15/405782		Pixia Corp.
Method and system for storing and retrieving wide-area motion imagery frames as objects on an object storage device	16/431,371		Pixia Corp.
Method and system of managing data files	16/748239	10970810	Pixia Corp.
Method and system of retrieving data in a data file	16/820335		Pixia Corp.
Method and System for Combining Multiple Area-Of-Interest Video Codestreams into a Combined Video Codestream	16/840231		Pixia Corp.
Systems and methods of selecting a view from a plurality of cameras	16/903224		Pixia Corp.
Method and System for Providing a Federated Wide Area Motion Imagery Collection Service	17/100614		Pixia Corp.
Three-dimensional microstructures having an embedded and mechanically locked support member and method of formation thereof	12/005885	7649432	Cubic Corporation
System enablement of automatic fare collection devices using a network	10/147233	6732922	Cubic Corporation
FOLDABLE RADIO WAVE ANTENNA	14334374	9960498	Cubic Corporation
Foldable Radio Wave Antenna Deployment Apparatus for a Satellite	14883392	9899743	Cubic Corporation
Automatically Deployable Communications System	13836801	9276306	Cubic Corporation
FOLDABLE RADIO WAVE ANTENNA DEPLOYMENT APPARATUS FOR A SATELLITE	15868710 (Abandoned)		Cubic Corporation
SYSTEMS AND METHODS FOR MANUFACTURING STACKED CIRCUITS AND TRANSMISSION LINES	15532291	10511073	Cubic Corporation
MULTIBAND ANTENNA WITH PHASE-CENTER CO-ALLOCATED FEED	15373016	10431896	Cubic Corporation
INTEGRATED ELECTRONIC COMPONENTS AND METHODS OF FORMATION THEREOF	15811038	10431521	Cubic Corporation
STRUCTURES AND METHODS FOR INTERCONNECTS AND ASSOCIATED ALIGNMENT AND ASSEMBLY MECHANISMS FOR AND BETWEEN CHIPS, COMPONENTS, AND 3D SYSTEMS	15074083	10361471	Cubic Corporation
WAFER SCALE TEST INTERFACE UNIT AND CONTACTORS	15111252	10310009	Cubic Corporation
THREE-DIMENSIONAL MICROSTRUCTURES	15809701	10305158	Cubic Corporation
SUBSTRATE-FREE INTERCONNECTED ELECTRONIC MECHANICAL STRUCTURAL SYSTEMS	15854917	10257951	Cubic Corporation

Title	Application Number	Patent Number	Owner
Dielectric-free metal-only dipole-coupled radiating array aperture with wide field of view	16017410	10256545	Cubic Corporation
STRUCTURES AND METHODS FOR INTERCONNECTS AND ASSOCIATED ALIGNMENT AND ASSEMBLY MECHANISMS FOR AND BETWEEN CHIPS, COMPONENTS, AND 3D SYSTEMS	15861283	10193203	Cubic Corporation
DEVICES AND METHODS FOR SOLDER FLOW CONTROL IN THREE-DIMENSIONAL MICROSTRUCTURES	15341378	10076042	Cubic Corporation
Coaxial Waveguide Microstructures Having an Active Device and Methods of Formation Thereof	15079614	10074885	Cubic Corporation
TACTICAL ENGAGEMENT SIMULATION (TES) GROUND-BASED AIR DEFENSE PLATFORM	16/407,390	10,593,224	Cubic Corporation
INTEGRATED CHIP SCALE PACKAGES	16433539	10553511	Cubic Corporation
ONBOARD DEVICE AND CONTROLLER FOR VEHICLE-TO-VEHICLE DETECTION	16223472	10551506	Cubic Corporation
MULTILAYER BUILD PROCESSES AND DEVICES THEREOF	15461860	10497511	Cubic Corporation
3D FACE RECONSTRUCTION FROM GATE CAMERA	15228227	10489973	Cubic Corporation
WATER INGRESS PROTECTION FOR TICKET ENTRY SLOT	16130228	10482683	Cubic Corporation
BLAST RESISTANT STATION FIXED BARRIER	16183938	10473436	Cubic Corporation
LONG-RANGE OPTICAL TAG	16392873	10408935	Cubic Corporation
AUDIO ASSISTED DYNAMIC BARCODE SYSTEM	16012562	10397691	Cubic Corporation
HARDWARE SETTING RESTRICTION OF ELECTRONIC DEVICES WITHIN TRANSIT VEHICLES	16117075	10375230	Cubic Corporation
CROWD SIZE ESTIMATION BASED ON WIRELESS SIGNAL ABSORPTION	16225239	10374646	Cubic Corporation
MODULAR FIRING RANGE	16657116		Cubic Corporation
MODULAR FIRING RANGE	16657119		Cubic Corporation
MODULAR FIRING RANGE	16657127		Cubic Corporation
RADIO-OVER-INTERNET-PROTOCOL (ROIP) GATEWAY TALK GROUP CONFIGURATION	16727287		Cubic Corporation
INTERACTIVE TERMINAL	29452734	D695285	Cubic Corporation
INTERACTIVE TERMINAL	29452732	D699238	Cubic Corporation
INTERACTIVE TERMINAL	29448281	D702676	Cubic Corporation
INTERACTIVE TERMINAL	29529799	D765652	Cubic Corporation
DISPLAY SCREEN OR PORTION THEREOF WITH A TRANSITIONAL GRAPHICAL USER INTERFACE	29545779	D791807	Cubic Corporation
POWER OSCILLATOR FOR CONTROL OF WAVESHAPE AND AMPLITUDE	10078850	6621357	Cubic Corporation
CUSTOMER ADMINISTERED AUTOLOAD	10104635	6655587	Cubic Corporation
INDUCTIVE COIN SENSOR WITH POSITION CORRECTION	10077047	6739444	Cubic Corporation
DISTRIBUTED ARCHITECTURE FOR MAGNETIC FARE CARD PROCESSING	10225547	6789736	Cubic Corporation
UNIVERSAL TICKET TRANSPORT	10227777	6817524	Cubic Corporation
CUSTOMER ADMINISTERED AUTOLOAD	10714369	7108176	Cubic Corporation
DEVICE PACKAGE AND METHOD FOR THE FABRICATION AND TESTING THEREOF	10941667	7129163	Cubic Corporation
DYNAMIC SMART CARD/MEDIA IMAGING	10427061	7306143	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	10941668	7329056	Cubic Corporation
VIRTUAL GATE SYSTEM	10913134	7331522	Cubic Corporation
ENHANCEMENT OF AIMPOINT IN SIMULATED TRAINING SYSTEMS	11183250	7345265	Cubic Corporation
MODULAR SHOOTING RANGE	11189511	7357394	Cubic Corporation
AUTOMATIC INTEGRATED SENSING AND ACCESS CONTROL	11329640	7367494	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	11590629	7508065	Cubic Corporation
WALKAWAY CREDITING	11201836	7587332	Cubic Corporation

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TEMPERATURE COMPENSATED DYNAMIC OPTICAL TAG MODULATOR SYSTEM AND METHOD	11150828	7603041	Cubic Corporation
FLIP CHIP QUANTUM WELL MODULATOR	12171803	7679805	Cubic Corporation
INTEGRATED ELECTRONIC COMPONENTS AND METHODS OF FORMATION THEREOF	12077547	7755174	Cubic Corporation
EYE SAFETY PROTECTION FROM HIGH POWER LASER LIGHT	11947685	7834302	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	11590099	7888793	Cubic Corporation
MODULAR SHOOTING RANGE	12050057	7909331	Cubic Corporation
PARASITIC POWER SUPPLY FOR TRAFFIC CONTROL SYSTEMS	12217679	7911084	Cubic Corporation
SMART CARD DETECTORS	12123387	7936265	Cubic Corporation
COAXIAL WAVEGUIDE MICROSTRUCTURE HAVING CONDUCTIVE AND INSULATION MATERIALS DEFINING VOIDS THEREIN	12214785	7948335	Cubic Corporation
SHUTTERS FOR INFRA RED COMMUNICATION AT MODERATE BANDWIDTHS	11621954	7950812	Cubic Corporation
MODULAR SHOOTING SYSTEM	11686185	7967296	Cubic Corporation
METHOD AND APPARATUS FOR MEASURING WEAPON POINTING ANGLES	12780789	8022986	Cubic Corporation
SCOUT SNIPER OBSERVATION SCOPE	12138227	8051597	Cubic Corporation
SIMULATOR WITH FORE AND AFT VIDEO DISPLAYS	10352321	8123526	Cubic Corporation
TRANSIT SECURITY DETECTION SYSTEM	12189705	8205796	Cubic Corporation
SOLID STATE FLEXURE FOR POINTING DEVICE	12474201	8245434	Cubic Corporation
OPTICAL DEVICE PACKAGE	11503023	8399897	Cubic Corporation
VIDEO HASHING SYSTEM AND METHOD	12043579	8494234	Cubic Corporation
Tightly coiled amplifying optical fiber with reduced mode distortion	12712902	8520298	Cubic Corporation
TRAINING SYSTEM AND METHODS FOR DYNAMICALLY INJECTING EXPRESSION INFORMATION INTO AN ANIMATED FACIAL MESH	12573003	8581911	Cubic Corporation
REPEATER SYSTEM	13055491	8644758	Cubic Corporation
THREE-DIMENSIONAL MATRIX STRUCTURE FOR DEFINING A COAXIAL TRANSMISSION LINE CHANNEL	12713946	8659371	Cubic Corporation and BAE Systems Information and Electronic Systems Integration Inc
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	12944040	8703603	Cubic Corporation
THERMAL MANAGEMENT	13011889	8717124	Cubic Corporation
WIRELESS COMMUNICATION SYSTEM	14053040	8717930	Cubic Corporation
AUTOMATIC INTEGRATED SENSING AND ACCESS CONTROL	13069995	8720775	Cubic Corporation
USE OF ZIGBEE PERSONAL AREA NETWORK IN MILES MANWORN	11779213	8783575	Cubic Corporation
BATCH FABRICATED MICROCONNECTORS	13490089	8814601	Cubic Corporation
SHARED CASH HANDLER	13942945	8827063	Cubic Corporation
Two beam small arms transmitter	11194992	8827707	Cubic Corporation
TACTICAL RIFLESCOPE WITH SMARTPHONE DOCK	13781967	8830589	Cubic Corporation
NEAR FIELD COMBAT IDENTIFICATION	13186148	8831429	Cubic Corporation
MONITORING UNIT CONFIGURATION MANAGEMENT	13088803	8836475	Cubic Corporation
FILTER ANTENNA	14156378	8836596	Cubic Corporation
COMPACT WIDE-ANGLE PIXELLATED ACTIVE OPTICAL LINK	12623298	8837949	Cubic Corporation
DEVICES AND METHODS FOR SOLDER FLOW CONTROL IN THREE-DIMENSIONAL MICROSTRUCTURES	13488991	8866300	Cubic Corporation
VIDEO HASHING SYSTEM AND METHOD	13947366	8897512	Cubic Corporation
MAGAZINE FOR SIMULATED TETHERLESS PISTOLS WITH LOCKBACK	13660764	8899985	Cubic Corporation
A WAVEGUIDE BALUN HAVING WAVEGUIDE STRUCTURES DISPOSED OVER A GROUND PLANE SURFACE AND HAVING PROBES LOCATED IN CHANNELS	13011886	8917150	Cubic Corporation

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THREE-DIMENSIONAL MICROSTRUCTURES HAVING A RE-ENTRANT SHAPE APERTURE AND METHODS OF FORMATION	13219736	8933769	Cubic Corporation
TRANSIT ACCOUNT MANAGEMENT WITH MOBILE DEVICE MESSAGING	13610127	8942677	Cubic Corporation
SMART POWER COMBINER	13712676	8952752	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION THEREOF	13237931	8969132	Cubic Corporation
ON-VEHICLE TICKETING AND VALIDATION	14337792	8981896	Cubic Corporation
INTEGRATED IMAGE ERECTOR AND THROUGH-SIGHT INFORMATION DISPLAY FOR TELESCOPE OR OTHER OPTICAL DEVICE	13225644	8988648	Cubic Corporation
SMARTCARD TO VIRTUAL MEDIA CONVERSION	14334531	8990117	Cubic Corporation
ASSOCIATION OF CONTACTLESS PAYMENT CARD PRIMARY ACCOUNT NUMBER	12877691	8991699	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	14258358	8993450	Cubic Corporation
INTEGRATED ELECTRONIC COMPONENTS AND METHODS OF FORMATION THEREOF	13733565	9024417	Cubic Corporation
SOFTWARE EMULATION OF CONTACTLESS SMART CARD BEHAVIOUR WITHIN A PORTABLE CONTACTLESS READER DEVICE	14566601	9058602	Cubic Corporation
HIGH FREQUENCY POWER COMBINER/DIVIDER	13726073	9065163	Cubic Corporation
PERSONAL POINT OF SALE	13627079	9083486	Cubic Corporation
HOLLOW CORE COAXIAL CABLES AND METHODS OF MAKING THE SAME	13183409	9088074	Cubic Corporation
DISTRIBUTED LOCAL OSCILLATOR GENERATION AND SYNCHRONIZATION	14143685	9088330	Cubic Corporation
Adjustment of altitude measurements	11486763	9099012	Cubic Corporation
INTERACTIVE DAY PLANNER	14515244	9127957	Cubic Corporation
Coaxial Waveguide Microstructure Having Center and Outer Conductors Configured in a Rectangular Cross-Section	14293696	9312589	Cubic Corporation
PERSONAL POINT OF SALE	14733607	9312923	Cubic Corporation
FORMULATION FOR PACKAGING AN ELECTRONIC DEVICE AND ASSEMBLIES MADE THEREFROM	13843505	9337152	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	14657131	9410799	Cubic Corporation
THREE-DIMENSIONAL MICROSTRUCTURES	14845385	9413052	Cubic Corporation
DETERMINING MAXIMALLY STABLE EXTERNAL REGIONS USING A PARALLEL PROCESSOR	14214034	9626576	Cubic Corporation
SYSTEMS AND METHODS FOR QUEUE MANAGEMENT	14680568	9633319	Cubic Corporation
PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	15230944	9647420	Cubic Corporation
STACKED, SWITCHED FILTER BANKS	15218574	9660614	Cubic Corporation
PLASTIC CHASSIS FOR LIQUID COOLED ELECTRONIC COMPONENTS	15191164	9674984	Cubic Corporation
ATHERMALIZED OPTICS FOR LASER WIND SENSING	14696004	9678099	Cubic Corporation
WIRELESS IMMERSIVE SIMULATION SYSTEM	13948992	9715834	Cubic Corporation
INFRARED LASER AUTOMATIC BORE-SIGHTING	15334099	9759522	Cubic Corporation
RIFLESCOPE WITH INTEGRATED WIND SENSOR AND TARGETING DISPLAY	15065701	9816782	Cubic Corporation
DEVICE PACKAGE AND METHODS FOR THE FABRICATION AND TESTING THEREOF	15584542	9817199	Cubic Corporation
SYSTEMS AND METHODS FOR QUEUE MANAGEMENT	14680557	9818069	Cubic Corporation
TRANSIT VEHICLE SENSOR SYSTEM	15264795	9824508	Cubic Corporation
MODULAR BIKE LOCK	15257391	9830759	Cubic Corporation

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THREE-DIMENSIONAL MICROSTRUCTURES	15222115	9843084	Cubic Corporation
SUBSTRATE-FREE INTERCONNECTED ELECTRONIC MECHANICAL STRUCTURAL SYSTEMS	15069325	9888600	Cubic Corporation
AUTOMATED TRANSIT VALIDATION RULE UPDATING	15165252	9905055	Cubic Corporation
METHODS OF FABRICATING ELECTRONIC AND MECHANICAL STRUCTURES	14232396	9993982	Cubic Corporation
MOBILE WIRELESS PAYMENT AND ACCESS	14825080	9996831	Cubic Corporation
DISTRIBUTION AND ENABLEMENT OF RELOADABLE PREPAID CARDS IN TRANSIT	14605850	9996985	Cubic Corporation
INTEGRATED ELECTRONIC COMPONENTS AND METHODS OF FORMATION THEREOF	14695298	10002818	Cubic Corporation
DIELECTRIC-FREE METAL-ONLY DIPOLE-COUPLED RADIATING ARRAY APERTURE WITH WIDE FIELD OF VIEW	15602353	10008779	Cubic Corporation
Mounting bracket	15330117	10012251	Cubic Corporation
PERSONAL POINT OF SALE	15195835	10019704	Cubic Corporation
DIELECTRIC-FREE METAL-ONLY DIPOLE-COUPLED BROADBAND RADIATING ARRAY APERTURE WITH WIDE FIELD OF VIEW	14567655	10027030	Cubic Corporation
WIRELESS IMMERSIVE SIMULATION SYSTEM	15355553	10032387	Cubic Corporation
DYNAMIC BARCODE TICKETING CARRYING ENCRYPTED VALIDATION TRANSACTIONS	15919526	10121038	Cubic Corporation
TRANSIT ACCOUNT MANAGEMENT WITH MOBILE DEVICE MESSAGING	14569176	10121288	Cubic Corporation
Fluid Pressure Activated Electrical Contact Devices and Methods	15895794	10128601	Cubic Corporation
PAPER TRANSIT TICKETS AS A MEDIUM FOR ENVIRONMENTAL SAMPLING	15616355	10132726	Cubic Corporation
METHOD OF FORMING A COAXIAL LINE MICROSTRUCTURE HAVING AN ENLARGED REGION ON A SUBSTRATE AND REMOVING THE COAXIAL LINE MICROSTRUCTURE FROM THE SUBSTRATE FOR MOUNTING ON A MOUNTING SUBSTRATE	15405799	10135109	Cubic Corporation
OPTICAL SCANNING FOR LINE-OF-SIGHT COMMUNICATIONS TO OPTICAL TAGS	15782589	10146974	Cubic Corporation
INDIRECT FIRE MISSION TRAINING SYSTEM - ARTILLERY AMMUNITION MANAGEMENT	16148156	10247506	Cubic Corporation
SYSTEM AND METHOD FOR MODIFYING A WIRELESS COMMUNICATION OBJECT	15919913	10251090	Cubic Corporation
FAST DETERMINATION OF A FREQUENCY OF A RECEIVED AUDIO SIGNAL BY MOBILE PHONE	16012556	10257606	Cubic Corporation
RIFLE SCOPE TARGETING DISPLAY ADAPTER	15079851	10274286	Cubic Corporation
RUGGEDIZED USB CONNECTOR	16025759	10276978	Cubic Corporation
SYSTEM AND METHOD FOR TRANSIT ACCESS USING EEG SENSORS	16019242	10325427	Cubic Corporation
PROXIMITY ASSISTED SEAMLESS SERVICE (PASS)	16052424	10325480	Cubic Corporation
AUTOMATED SCENARIO RECOGNITION AND REPORTING USING NEURAL NETWORKS	16050892	10331943	Cubic Corporation
SENSOR-BASED AUTOMATED TRANSIT MAINTENANCE SYSTEM	16116564	10338577	Cubic Corporation
LIGHT SEQUENCED CARD VALIDATION	16101693	10346604	Cubic Corporation
Continuous feedback container security system	10/407454	6870476	Cubic Corporation
ENHANCEMENT OF AIMPOINT IN SIMULATED TRAINING SYSTEMS	11931892	7687751	Cubic Corporation
AUTOMATIC INTEGRATED SENSING AND ACCESS CONTROL	12062390	7677449	Cubic Corporation
UNIVERSAL TICKET TRANSPORT	11367053	7322521	Cubic Corporation
POWER OSCILLATOR FOR CONTROL OF WAVESHAPE AND AMPLITUDE	10659804	7116956	Cubic Corporation
COMPACT RIFLESCOPE DISPLAY ADAPTER	14543761	9335124	Cubic Corporation
AUTONOMOUS VEHICLE SMART PARKING TICKET	16681369		Cubic Corporation
FLIP-CHIP PHOTODIODE	13584457	8455972	Cubic Corporation

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INTEGRATED OPTICAL COMMUNICATION AND RANGE FINDING SYSTEM AND APPLICATION THEREOF	12332200	7983565	Cubic Corporation
AUTOMATIC INTEGRATED SENSING AND ACCESS CONTROL	12716154	7934645	Cubic Corporation
FIELD TEST OF A RETRO-REFLECTOR AND DETECTOR ASSEMBLY	12266072	7859675	Cubic Corporation
INTERACTIVE TERMINAL	29452733	D705213	Cubic Corporation
INTEGRATED OPTICAL COMMUNICATION AND RANGE FINDING SYSTEM AND APPLICATION THEREOF	12332206	7720388	Cubic Corporation
AUTOMATED IMPROVISED EXPLOSIVE DEVICE TRAINING SYSTEM	11780414	8408907	Cubic Corporation
SNIPER TRAINING SYSTEM	12136701	8414298	Cubic Corporation
ELECTRO-OPTIC SYSTEM FOR CROSSWIND MEASUREMENT	14/661653	9347742	CUBIC DEFENSE APPLICATIONS, INC.
ELECTRO-OPTIC SYSTEM FOR CROSSWIND MEASUREMENT	14/450076	9157701	CUBIC DEFENSE APPLICATIONS, INC.
DATA STORAGE AND RETRIEVAL SYSTEM AND METHOD	10/263,930	6912695	Pixia Corp.
UNIVERSAL TICKET TRANSPORT	10/989,360	7036732	Cubic Corporation