

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

Assignment ID: PAT1677008

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CHANGE OF NAME
CONVEYING PARTY DATA	
Name	Execution Date
BAE SYSTEMS IMAGING SOLUTIONS INC.	11/01/2024
RECEIVING PARTY DATA	
Company Name:	Fairchild Imaging, Inc.
Street Address:	1209 Orange Street
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19801
PROPERTY NUMBERS Total: 69	
Property Type	Number
Application Number:	13856402
Application Number:	14988623
Application Number:	15222786
Application Number:	14026855
Application Number:	13936974
Application Number:	14591873
Application Number:	15208734
Application Number:	14097162
Application Number:	17273191
Application Number:	15050666
Application Number:	16305551
Application Number:	15740585
Application Number:	16198247
Application Number:	17158367
Application Number:	15554438
Application Number:	15552426
Application Number:	16476911
Application Number:	15828010
Application Number:	16626471
Application Number:	16212728

PATENT

Property Type	Number
Application Number:	16212325
Application Number:	16169895
Application Number:	16400019
Application Number:	16389789
Application Number:	16708111
Application Number:	29812082
Application Number:	17550856
Application Number:	17644201
Application Number:	17817146
Application Number:	18056093
Application Number:	17967021
Application Number:	17967028
Application Number:	18174299
Application Number:	18063885
Application Number:	18147903
Application Number:	17983693
Application Number:	18106581
Application Number:	18448452
Application Number:	10866537
Application Number:	11683535
Application Number:	11182310
Application Number:	12637633
Application Number:	11175948
Application Number:	11686668
Application Number:	12818573
Application Number:	11447541
Application Number:	11494058
Application Number:	12129607
Application Number:	11926453
Application Number:	11928285
Application Number:	12036998
Application Number:	12049901
Application Number:	12111016
Application Number:	12254762
Application Number:	13177279
Application Number:	12330178
Application Number:	12330294
Application Number:	12892467

Property Type	Number
Application Number:	12717609
Application Number:	10133228
Application Number:	13436267
Application Number:	13471384
Application Number:	15390206
Application Number:	18525093
Application Number:	18433020
Application Number:	29941138
Application Number:	18437820
Application Number:	18669045
Application Number:	18438600

CORRESPONDENCE DATA

Fax Number: 2159651331

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: 2159651330

Email: abennett@panitchlaw.com

Correspondent Name: Mr. Stephen E. Murray

Address Line 1: Two Commerce Square

Address Line 2: 2001 Market Street, Suite 2800

Address Line 4: Philadelphia, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	690294.5002
NAME OF SUBMITTER:	Andrea Bennett
SIGNATURE:	Andrea Bennett
DATE SIGNED:	12/06/2024

Total Attachments: 12

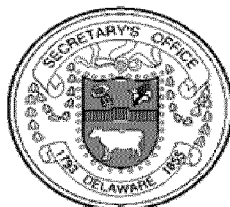
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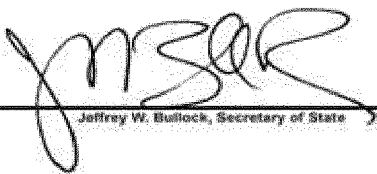
Delaware

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The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE RESTATED CERTIFICATE OF "BAE SYSTEMS IMAGING SOLUTIONS INC.", CHANGING ITS NAME FROM "BAE SYSTEMS IMAGING SOLUTIONS INC." TO "FAIRCHILD IMAGING, INC.", FILED IN THIS OFFICE ON THE FIRST DAY OF NOVEMBER, A.D. 2024, AT 10:01 O`CLOCK A.M.




Jeffrey W. Bullock, Secretary of State

3355661 8100
SR# 20244102652

Authentication: 204775191
Date: 11-01-24

You may verify this certificate online at corp.delaware.gov/authver.shtml

PATENT
REEL: 069531 FRAME: 0649

**THIRD AMENDED AND RESTATED
CERTIFICATE OF INCORPORATION**

OF

BAE SYSTEMS IMAGING SOLUTIONS INC.

BAE SYSTEMS IMAGING SOLUTIONS INC., a corporation organized and existing under and by virtue of the provisions of the General Corporation Law of the State of Delaware (the "**General Corporation Law**"),

DOES HEREBY CERTIFY:

1. That the name of this corporation is BAE SYSTEMS IMAGING SOLUTIONS INC., and that this corporation was originally incorporated pursuant to the General Corporation Law on February 12, 2001 under the name Imaging, Inc.

2. That the Board of Directors duly adopted resolutions proposing to amend and restate the Certificate of Incorporation of this corporation in accordance with Sections 242 and 245 of the General Corporation Law of the State of Delaware (the "DGCL"), declaring said amendment and restatement to be advisable and in the best interests of this corporation and its stockholders, and authorizing the appropriate officers of this corporation to solicit the consent of the stockholders therefor, which resolution setting forth the proposed amendment and restatement is as follows:

RESOLVED, that the Certificate of Incorporation of this corporation be amended and restated in its entirety to read as follows:

FIRST: The name of the corporation (the "Corporation") is Fairchild Imaging, Inc.

SECOND: The address of the Corporation's registered office in the State of Delaware is 1209 Orange Street, City of Wilmington, County of New Castle, Delaware 19801, and the name of the registered agent of the Corporation in the State of Delaware at such address is The Corporation Trust Company.

THIRD: The purpose of the Corporation is to engage in any lawful act or activity for which corporations may be organized under the DGCL.

FOURTH: The total number of shares of stock that the Corporation shall have authority to issue is 100. The par value of such shares is \$0.01 per share. All such shares are of one class and are common stock.

FIFTH: Elections of the directors need not be by written ballot except and to the extent provided in the bylaws of the Corporation.

SIXTH: To the fullest extent permitted by law, a director or officer of the Corporation shall not be personally liable to the Corporation or to its stockholders for monetary damages for any

acts or omissions in the performance of his or her duties as a director or officer of the Corporation. No amendment to, modification of, or repeal of this Article SIXTH shall apply to or have any effect on the liability or alleged liability of any director or officer of the Corporation for or with respect to any acts or omissions of such director or officer occurring prior to such amendment.

SEVENTH: The Corporation shall indemnify, advance expenses, and hold harmless, to the fullest extent permitted by applicable law as it presently exists or may hereafter be amended, any person (a "Covered Person") who was or is made or is threatened to be made a party or is otherwise involved in any action, suit, or proceeding, whether civil, criminal, administrative, or investigative (a "Proceeding"), by reason of the fact that the Covered Person, or a person for whom the Covered Person is the legal representative, is or was a director or officer of the Corporation or, while a director or officer of the Corporation, is or was serving at the request of the Corporation as a director, officer, employee, or agent of another corporation or of a partnership, joint venture, trust, enterprise, or nonprofit entity, including service with respect to employee benefit plans, against all liability and loss suffered and expenses (including attorneys' fees) reasonably incurred by such Covered Person. Notwithstanding the preceding sentence, except for claims for indemnification (following the final disposition of such Proceeding) or advancement of expenses not paid in full, the Corporation shall be required to indemnify a Covered Person in connection with a Proceeding (or part thereof) commenced by such Covered Person only if the commencement of such Proceeding (or part thereof) by the Covered Person was authorized in the specific case by the board of directors of the Corporation. Any amendment, repeal, or modification of this Article SEVENTH shall not adversely affect any right or protection hereunder of any person in respect of any act or omission occurring prior to the time of such repeal or modification.

EIGHTH: In furtherance and not in limitation of the rights, powers, privileges, and discretionary authority granted or conferred by the DGCL or other statutes or laws of the State of Delaware, the board of directors is expressly authorized to make, alter, amend, or repeal the bylaws of the Corporation, without any action on the part of the stockholders, but the stockholders may make additional bylaws and may alter, amend, or repeal any bylaw whether adopted by them or otherwise. The Corporation may in its bylaws confer powers upon its board of directors in addition to the foregoing and in addition to the powers and authorities expressly conferred upon the board of directors by applicable law.

NINTH: The Corporation reserves the right at any time and from time-to-time to amend, alter, change, or repeal any provision contained in this Third Amended and Restated Certificate of Incorporation, and other provisions authorized by the laws of the State of Delaware at the time in force may be added or inserted, in the manner now or hereafter prescribed herein or by applicable law; and all rights, preferences, and privileges of whatsoever nature conferred upon stockholders, directors, officers, or any other persons whomever by and pursuant to this Certificate of Incorporation in its present form or as hereafter amended are granted subject to this reservation.

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IN WITNESS WHEREOF, this Third Amended and Restated Certificate of Incorporation has been executed by a duly authorized officer of the Corporation on November 1, 2024.

BAE SYSTEMS IMAGING SOLUTIONS INC.

/S/ MARC THACHER

NAME: Marc Thacher

TITLE: Chief Executive Officer

Schedule A

FilDate	Patent #	IssDate	AppNumber	AppTitle
03-Apr-2013	8,952,729	10-Feb-2015	13/856,402	Sample and Hold Circuit with Reduced Noise
05-Jan-2016	10,123,762	13-Nov-2018	14/988,623	SYSTEM AND METHOD FOR ADJUSTING DENTAL X-RAY EXPOSURE
28-Jul-2016	10,277,838	30-Apr-2019	15/222,786	Monolithic Visible/IR Fused Low Light Level Imaging Sensor
13-Sep-2013	9,374,545	21-Jun-2016	14/026,855	Amplifier Adapted for CMOS Imaging Sensors
08-Jul-2013	9,412,782	09-Aug-2016	13/936,974	Imaging Array with Improved Dynamic Range Utilizing Parasitic Photodiodes
07-Jan-2015	10,128,296	13-Nov-2018	14/591,873	Imaging Array with Improved Dynamic Range Utilizing Parasitic Photodiodes
13-Jul-2016	10,128,286	13-Nov-2018	15/208,734	Imaging Array with Improved Dynamic Range Utilizing Parasitic Photodiodes Within Floating Diffusion Nodes of Pixels
04-Dec-2013	9,253,396	02-Feb-2016	14/097,162	Variable Gain Column Amplifier Adapted for Use in Imaging Arrays

FilDate	Patent #	IssDate	AppNumber	AppTitle
21-Nov-2018			17/273,191	TIME DELAY INTEGRATION STRUCTURE FOR COMPLEMENTARY METAL-OXIDE SEMICONDUCTOR IMAGING SENSOR
23-Feb-2016	9,933,300	03-Apr-2018	15/050,666	ULTRA-HIGH DYNAMIC RANGE TWO PHOTODIODE PIXEL ARCHITECTURE
31-May-2017	11,462,581	04-Oct-2022	16/305,551	PHOTODETECTOR ADAPTED TO PROVIDE ADDITIONAL COLOR INFORMATION
18-Aug-2016	10,057,530	21-Aug-2018	15/740,585	High Dynamic Range Imaging Sensor Array
21-Nov-2018	10,937,835	02-Mar-2021	16/198,247	Low-Noise Integrated Post-Processed Photodiode
26-Jan-2021	11,723,223	08-Aug-2023	17/158,367	LOW-NOISE INTEGRATED POST-PROCESSED PHOTODIODE
28-Feb-2017	10,237,501	19-Mar-2019	15/554,438	Autofocus System for CMOS Imaging Sensors
19-Dec-2016	10,200,644	05-Feb-2019	15/552,426	GLOBAL SHUTTER SCHEME THAT REDUCES THE EFFECTS OF DARK CURRENT

FileDate	Patent #	IssDate	AppNumber	AppTitle
25-Jan-2017	10,863,130	08-Dec-2020	16/476,911	BACKSIDE ILLUMINATED GLOBAL SHUTTER IMAGING ARRAY
30-Nov-2017	10,939,046	02-Mar-2021	15/828,010	LED Flicker Mitigation for Motion Pictures
29-Jun-2017	11,252,353	15-Feb-2022	16/626,471	ULTRA-LOW NOISE AMPLIFIER ADAPTED FOR CMOS IMAGING SENSORS
07-Dec-2018	10,641,870	05-May-2020	16/212,728	LIDAR SYSTEM THAT IS RESISTANT TO NOISE CAUSED BY NEARBY LIDAR SYSTEMS
06-Dec-2018	10,469,781	05-Nov-2019	16/212,325	POWER DISTRIBUTION NETWORK ADAPTED FOR IMAGING ARRAYS
24-Oct-2018	10,484,618	19-Nov-	16/169,895	Ultra-High Dynamic Range CMOS Sensor
30-Apr-2019	10,742,219	11-Aug-2020	16/400,019	A PROGRAMMABLE MODULAR FREQUENCY DIVIDER
19-Apr-2019	11,107,847	31-Aug-2021	16/389,789	PIXEL AND IMAGING ARRAY WITH REDUCED DARK CURRENT ADAPTED TO LOW LIGHT IMAGING

FilDate	Patent #	IssDate	AppNumber	AppTitle
09-Dec-2019	11,089,244	10-Aug-2021	16/708,111	SMALL PIXEL HIGH DYNAMIC RANGE PIXEL SENSOR
19-Oct-2021			29/812,082	DENTAL SENSOR
14-Dec-2021	11,911,197	27-Feb-2024	17/550,856	X-RAY SENSOR SYSTEM FOR INTRAORAL TOMOGRAPHY
14-Dec-2021			17/644,201	X RAY IMAGE DATA MONITORING AND SIGNALING FOR PATIENT SAFETY
03-Aug-2022	12,015,870	18-Jun-2024	17/817,146	X-RAY ONSET DETECTOR FOR INTRAORAL DENTAL SENSOR
16-Nov-2022			18/056,093	SPAD SENSOR FOR NIGHT VISION APPLICATIONS
17-Oct-2022	11,956,557	9-Apr-2024	17/967,021	PIXEL ARCHITECTURE WITH HIGH DYNAMIC RANGE
17-Oct-2022			17/967,028	PIXEL ARCHITECTURE WITH MULTIPLE PIXEL BINNING
24-Feb-2023			18/174,299	TECHNIQUES FOR IMAGE DATA COMPRESSION AUTOMATION

FileDate	Patent #	IssDate	AppNumber	AppTitle
09-Dec-2022			18/063,885	DUAL-MODE COLUMN AMPLIFIER
29-Dec-2022			18/147,903	COLUMN READOUT AMPLIFIER FOR IMAGE SENSORS
09-Nov-2022			17/983,693	IMAGE SENSOR WITH CHARGE TRANSFER BETWEEN PIXELS
07-Feb-2023			18/106,581	IMAGE SENSOR WITH STACKED CCD AND CMOS ARCHITECTURE
11-Aug-2023			18/448,452	TECHNIQUES FOR LOW-LIGHT IMAGING
10-Jun-2004	7,132,638	07-Nov-2006	10/866,537	CCD IMAGING ARRAY WITH IMPROVED CHARGE SENSING
08-Mar-2007	7,615,754	10-Nov-2009	11/683,535	COMPACT CMOS BASED X-RAY DETECTOR ADAPTED FOR DENTAL APPLICATIONS
14-Jul-2005	7,655,493	02-Feb-2010	11/182,310	MULTI SPECTRAL SENSOR
14-Dec-2009	8,071,410	06-Dec-2011	12/637,633	MULTI SPECTRAL SENSOR

FileDate	Patent #	IssDate	AppNumber	AppTitle
06-Jul-2005	7,268,338	11-Sep-2007	11/175,948	IMAGING ARRAY HAVING VARIABLE CONVERSION GAIN
15-Mar-2007	7,764,316	27-Jul-2010	11/686,668	CCD ARRAY WITH INTEGRATED HIGH VOLTAGE PROTECTION CIRCUIT
18-Jun-	8,102,456	24-Jan-	12/818,573	CCD ARRAY WITH INTEGRATED HIGH
05-Jun-2006	7,638,749	29-Dec- 2009	11/447,541	CAPACITIVE TRANSIMPEDANCE AMPLIFIER FOR CCD ARRAYS
26-Jul-2006	7,655,918	02-Feb-2010	11/494,058	CMOS IMAGE SENSORS ADAPTED FOR DENTAL APPLICATIONS
29-May-2008	8,049,802	01-Nov- 2011	12/129,607	CMOS CAMERA ADAPTED FOR FORMING IMAGES OF MOVING SCENES
29-Oct-2007	7,605,376	20-Oct-2009	11/926,453	CMOS SENSOR ADAPTED FOR DENTAL X-RAY
30-Oct-2007	7,812,879	12-Oct-2010	11/928,285	SELF-TRIGGERING CMOS IMAGE SENSOR
25-Feb-2008	7,825,975	02-Nov- 2010	12/036,998	IMAGING ARRAY WITH IMPROVED DYNAMIC RANGE
17-Mar-2008	7,977,716	12-Jul-2011	12/049,901	CMOS IMAGE SENSOR WITH IMPROVED FILL-FACTOR AND REDUCED DARK

FileDate	Patent #	IssDate	AppNumber	AppTitle
28-Apr-2008	7,592,577	22-Sep-2009	12/111,016	SELF-TRIGGERING CMOS IMAGING ARRAY UTILIZING GUARD RING STRUCTURES AS LIGHT DETECTORS
20-Oct-2008	7,999,865	16-Aug-2011	12/254,762	IMAGING ARRAY WITH MODULATED PIXELS
06-Jul-2011	8,488,027	16-Jul-2013	13/177,279	IMAGING ARRAY WITH MODULATED PIXELS
08-Dec-2008	8,159,574	17-Apr-2012	12/330,178	IMAGING ARRAY WITH BUILT-IN EXPOSURE CONTROL
08-Dec-2009	8,130,294	06-Mar-2012	12/330,294	IMAGING ARRAY WITH NON-LINEAR LIGHT RESPONSE
28-Sep-2010	9,591,275	07-Mar-2017	12/892,467	HYBRID CAMERA SENSOR FOR NIGHT VISION AND DAY COLOR VISION
04-Mar-2010	9,426,390	23-Aug-2016	12/717,609	CMOS IMAGING ARRAY WITH IMPROVED NOISE CHARACTERISTICS
26-Apr-2002	6,933,975	23-Aug-2005	10/133,228	TDI imager with automatic speed optimization
30-Mar-2012	8,817,145	26-Aug-2014	13/436,267	HYBRID CCD-CMOS CAMERA ADAPTED FOR FORMING IMAGES OF MOVING SCENES

FileDate	Patent #	IssDate	AppNumber	AppTitle
14-May-2012	8,779,346	15-Jul-2014	13/471,384	DIGITAL PIXEL SENSOR WITH REDUCED NOISE
23-Dec-2016	10,440,298	08-Oct-2019	15/390,206	EXTENDED DYNAMIC RANGE CIS PIXEL ACHIEVING ULTRA-LOW NOISE
30-Nov-2023			18/525,093	2X2 BINNING OF CHARGE DOMAIN GLOBAL SHUTTER PIXEL
5-Feb-2024			18/433,020	ESTIMATING OPTIMAL RADIATION DOSE FOR X-RAY DIAGNOSTIC IMAGE
8-May-2024			29/941,138	INTRA-ORAL DENTAL CAMERA
9-Feb-2024			18/437,820	IMAGE SENSOR WITH ASYMMETRIC DOPING PROFILE FOR HIGH CONVERSION GAIN
20-May-2024			18/669,045	IMAGE SENSORS WITH DYNAMIC PIXEL DEFECT DETECTION AND CORRECTION
12-Feb-2024			18/438,600	IMAGE SENSOR PIXEL DESIGN

PATENT