

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT5576863

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the LIST OF PATENT NUMBERS, EXCLUDING PAT. NO.9476976 AND REINSTATEMENT OF ITS PREVIOUS OWNER previously recorded on Reel 047691 Frame 0890. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST.

**CONVEYING PARTY DATA**

Name	Execution Date
AIRBUS DEFENCE AND SPACE GMBH	08/03/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	AIRBUS DS ELECTRONICS AND BORDER SECURITY GMBH
<b>Street Address:</b>	WILLY-MESSERSCHMITT-STR. 1
<b>City:</b>	TAUFKIRCHEN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	82024

**PROPERTY NUMBERS Total: 36**

Property Type	Number
Patent Number:	8258998
Patent Number:	9270240
Patent Number:	8258994
Patent Number:	8265173
Patent Number:	7982484
Patent Number:	7928898
Patent Number:	8305238
Patent Number:	8193972
Patent Number:	8773646
Patent Number:	8149059
Patent Number:	8604818
Patent Number:	8849059
Patent Number:	8948591
Patent Number:	8791855
Patent Number:	8736485
Patent Number:	9397408
Patent Number:	9007271
Patent Number:	8803727

**PATENT**

Property Type	Number
Patent Number:	8634065
Patent Number:	8971056
Patent Number:	9068622
Patent Number:	9093972
Patent Number:	9196965
Patent Number:	9612922
Patent Number:	9046416
Patent Number:	8823555
Patent Number:	9387937
Patent Number:	9692137
Patent Number:	9571802
Patent Number:	9470786
Patent Number:	9397765
Patent Number:	9404796
Patent Number:	9602155
Application Number:	13193084
Application Number:	14441707
Patent Number:	8723718

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**NAME OF SUBMITTER:** VICTORIA FRIEDMAN

**SIGNATURE:** /vfr/

**DATE SIGNED:** 06/18/2019

**Total Attachments: 5**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5269472

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
AIRBUS DEFENCE AND SPACE GMBH	08/03/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	AIRBUS DS ELECTRONICS AND BORDER SECURITY GMBH
<b>Street Address:</b>	WILLY-MESSERSCHMITT-STR. 1
<b>City:</b>	TAUFKIRCHEN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	82024

**PROPERTY NUMBERS Total: 37**

Property Type	Number
Patent Number:	8258998
Patent Number:	9270240
Patent Number:	8258994
Patent Number:	8265173
Patent Number:	7982484
Patent Number:	7928898
Patent Number:	8305238
Patent Number:	8193972
Patent Number:	8773646
Patent Number:	8149059
Patent Number:	8604818
Patent Number:	8849059
Patent Number:	8948591
Patent Number:	8791855
Patent Number:	8723718
Patent Number:	8736485
Patent Number:	9397408
Patent Number:	9007271
Patent Number:	8803727
Patent Number:	8634065

ASSIGNMENT OF PATENT

U.S. Patent Nos.: 8258998; 9270240; 8258994; 8265173; 7982484; 7928898; 8305238; 8193972; 8773646; 8149059; 8604818; 8849059; 8948591; 8791855; 8723718; 8736485; 9397408; 9007271; 8803727; 8634065; 8971056; 9068622; 9093972; 9196965; 9612922; 9046416; 8823555; 9387937; 9692137; 9571802; 9470786; 9397765; 9404796; 9602155; ~~9476976~~;  
Patent Appl. Nos.: 13/193084; 14/441707

For good and valuable consideration in hand paid, the receipt and sufficiency whereof are hereby acknowledged, **Airbus Defence and Space GmbH**, a limited company organized under the laws of Germany, having an address at Willy-Messerschmitt-Str. 1, 82024 Taufkirchen, Germany, (Assignor), hereby sells, assigns, transfers and sets over to

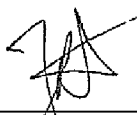
**Airbus DS Electronics and Border Security GmbH (now known as Hensoldt Sensors GmbH)** a limited company organized under the laws of Germany, having an address at Willy-Messerschmitt-Str. 1, 82024 Taufkirchen, Germany (Assignee) and to the successors and assigns of Assignee,

the entire right, title and interest in the invention or improvements of the undersigned disclosed in U.S. Patent Nos. and Patent Appl. Nos. enclosed herewith in Annex 1;

THEREOF, and in said patents and any and all other applications, both United States and foreign, which the undersigned may have filed and/or may file, either solely or jointly with others, on said inventions or improvements in any United States or foreign patent application claiming priority from, or claiming the same or improved invention as, any or all of the applications upon which said U.S. Patents issued, and in any and all Letters Patent or industrial models of the United States and foreign countries which may be obtained on any of said applications and in any reissue or extension of such patents, for the full term or terms for which said Patent, Patents or Industrial Design are or may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made; together with all claims for damages by reason of past infringement of any or all of said Patents with the right to sue for and collect the same.

Assignor warrants itself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interests herein assigned. Assignor hereby covenants that no other assignment, sale, agreement or encumbrance will be made or entered into which would conflict with this sale and assignment.

Assignor further covenants that Assignee will, upon its request and at the expense of Assignee, be provided promptly with all pertinent facts and documents relating to said inventions and said Letters Patents and legal equivalents as may be known and accessible to Assignor and will testify or cause appropriate persons to testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute or have executed, to the best of its ability, and deliver to Assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce any and all of said applications, said inventions and said letters patent and foreign equivalents thereof which may be necessary or desirable to carry out the purposes thereof.



**Airbus Defence and Space GmbH**

Date: 03.08.2018

By: Raluca Judele, Authorized Signatory (Assignor)

Nr./Crt	Country	Application Date	Application Number	Registration Number	Title
1.	US	14/05/2008	12/120359	8258994	IR JAMMING SYSTEM FOR DEFENSE AGAINST MISSILES WITH IR-SENSITIVE HOMING HEADS
2.	US	30/05/2008	12/130348	8265173	METHOD FOR COMPRESSION AND EXPANSION OF ANALOGUE SIGNALS
3.	US	25/02/2009	12/392712	7982484	SYSTEM FOR MAKING CONTACT BETWEEN A TRANSMIT/RECEIVE MODULE AND A TESTING DEVICE
4.	US	19/01/2008	12/527146	7928898	METHOD FOR DETERMINING THE KINEMATIC STATE OF AN OBJECT, BY EVALUATING SENSOR MEASURED VALUES
5.	US	22/09/2009	12/564587	8305238	MAN-MACHINE INTERFACE FOR PILOT ASSISTANCE
6.	US	04/03/2010	12/659350	8258998	DEVICE, SYSTEM AND METHOD OF PROTECTING AIRCRAFTS AGAINST INCOMING THREATS
7.	US	01/09/2008	12/675939	8193972	ADAPTIVE CALCULATION OF PULSE COMPRESSION FILTER COEFFICIENTS FOR A RADAR SIGNAL
8.	US	08/10/2010	12/900954	8773646	FIBER OPTIC SCANNER
9.	US	14/03/2009	12/934954	8149059	METHOD AND APPARATUS FOR COMPENSATING FOR GAIN CHANGES IN AN AMPLIFIER CIRCUIT
10.	US	02/04/2009	12/991657	8604818	APPARATUS FOR CONTACTING A T/R MODULE WITH A TEST DEVICE
11.	US	11/07/2009	13/055621	8849059	METHOD AND DEVICE FOR GENERATING IMAGES HAVING A REDUCED ERROR RATE, HIGH RESOLUTION AND IMPROVED CONTRAST
12.	US	28/07/2011	13/193084		Method for Assessing a Ground Area for Suitability as a Landing Zone or Taxi Area for Aircraft
13.	US	27/01/2010	13/201164	8948591	Method for Operating a Pulsed Interference Laser in an Eye-Safe Manner in a DIRCM System
14.	US	09/02/2010	13/254526	8791855	METHOD FOR DETECTING WIND POWER PLANTS USING A RADAR SYSTEM

15.	US	17/03/2010	13/257480	8723718	METHOD AND DEVICE FOR DETERMINING ASPECT ANGLE PROGRESSION
16.	US	22/11/2011	13/302117	8736485	METHOD FOR DIRECTION FINDING BY MEANS OF MONOPULSE FORMATION
17.	US	03/02/2012	13/365620	9397408	ANTENNA ARRAY
18.	US	24/06/2010	13/382737	9007271	FOLDABLE LOG-PERIODIC ANTENNA
19.	US	29/06/2010	13/386738	8803727	METHOD FOR PRODUCING SENSOR-SUPPORTED, SYNTHETIC VISION FOR LANDING SUPPORT OF HELICOPTERS UNDER BROWN-OUT OR WHITE-OUT CONDITIONS
20.	US	13/07/2010	13/389216	8634065	METHOD FOR OPERATING A JAMMING LASER IN A DIRCM SYSTEM IN A MANNER THAT IS SAFE FOR EYES
21.	US	18/09/2010	13/500674	8971056	HERMETICALLY SEALED RADIO-FREQUENCY FRONT END
22.	US	23/10/2010	13/510707	9068622	Shock-Isolation Structure
23.	US	25/11/2010	13/514632	9093972	Limiting Circuit
24.	US	26/11/2010	13/577147	9196965	Stacked Microstrip Antenna
25.	US	15/05/2014	14/277951	9270240	Circuit Layout and Method for Frequency-Dependent Matching of a High-Frequency Amplifier Stage
26.	US	16/03/2011	13/638438	9612922	Computer System and Method for Comparing Output Signals
27.	US	25/05/2011	13/701108	9046416	Device for the Radiometric Calibration of Infra-Red Measuring Devices
28.	US	25/05/2011	13/701287	8823555	Apparatus for Displaying Terrain on a Display Apparatus of an Airborne Vehicle
29.	US	16/06/2011	13/805270	9387937	Ejection Device for a Flight Data Recorder
30.	US	18/04/2013	13/865346	9692137	Annular Slot Antenna

31.	US	05/07/2013	13/935864	9571802	METHOD FOR THE DETECTION OF PULSED LASER RADIATION AND IMAGING LASER ALERTER
32.	US	29/02/2012	14/002618	9470786	Methods for Detecting the Flight Path of Projectiles
33.	US	07/03/2013	14/387250	9397765	Method for the Self-Testing of a Reactive Radio Interferer
34.	US	22/03/2013	14/394934	9404796	Optical Sensor Arrangement
35.	US	13/07/2013	14/420933	9602155	Transceiver Element for an Active, Electronically Controlled Antenna System
36.	US	06/11/2013	14/441707		Sensor for Detecting and Localizing Laser Beam Sources
<del>37.</del>	<del>US</del>	<del>16/01/2015</del>	<del>14/598735</del>	<del>9476976</del>	<del>Method of Kinematic Ranging</del>