

PATENT ASSIGNMENT

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Francis SOUALLE	05/19/2010
Helmut WOLF	06/11/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Astrium GmbH
<b>Street Address:</b>	Robert-Koch-Strasse 1
<b>City:</b>	Taufkirchen
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	82024
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12678110
<b>CORRESPONDENCE DATA</b>	
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<b>Total Attachments: 2</b> source=Executed_Assignment#page1.tif source=Executed_Assignment#page2.tif	

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Attorney Docket No.: 20837/0213486-US0

**ASSIGNMENT**

I, Francis Soualle, a citizen of France, residing at Sommerstrasse 45; 81543 Munich; GERMANY; and

I, Helmut Wolf, a citizen of Germany, residing at Gerstackerstrasse 5; 83607 Holzkirchen; GERMANY;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

Astrium GmbH

a Corporation organized under the laws of Germany, located at Robert-Koch-Strasse 1, 82024 Taufkirchen, GERMANY (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, in and for the United States of America only in and to my Invention entitled:

**METHOD AND DEVICE FOR CALIBRATING AN ARRAY ANTENNA**

invented by me and described in International Patent Application No. PCT/EP2008/007751, filed on September 17, 2008 in the PCT; and all patents, divisions, reissues, continuations, continuations-in-part and any extensions thereof and rights of priority therein, including the right to sue for past infringement and any such recovery, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an

application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

Dated: 19/05/10

Francis Soualle  
Francis Soualle, Inventor

Dated: 11-06-10

Helmut Wolf  
Helmut Wolf, Inventor