

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Marc Thill	04/08/2011
Guy Harles	04/08/2011
Markus Gross	04/08/2011
Jos Wouters	04/08/2011
Georges Krier	04/08/2011
RECEIVING PARTY DATA	
Name:	SES Astra S.A.
Street Address:	Chateau de Betzdorf
City:	Betzdorf
State/Country:	LUXEMBOURG
Postal Code:	L-6815
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13055163
CORRESPONDENCE DATA	
Fax Number:	(617)646-8646
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	617-646-8000
Email:	patents_BillM@wolfgreenfield.com
Correspondent Name:	Wolf, Greenfield & Sacks, P.C.
Address Line 1:	600 Atlantic Avenue
Address Line 4:	Boston, MASSACHUSETTS 02210
ATTORNEY DOCKET NUMBER:	H0075.70163US00
NAME OF SUBMITTER:	Doris A. Champagne
Total Attachments: 2 source=H0075.70163US00-Assign.p1#page1.tif source=H0075.70163US00-Assign.p2#page1.tif	

OP \$40.00 13055163

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to SES Astra S.A., a Luxembourg corporation having a place of business at Chateau de Betzdorf; Betzdorf L-6815; LUXEMBOURG, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on January 21, 2011 under No. 13/055,163, bearing Attorney Docket No. H0075.70163US00, and entitled SPACECRAFT POSITION ESTIMATING SYSTEM AND METHOD, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date: April 8, 2011

Signature: *X* 

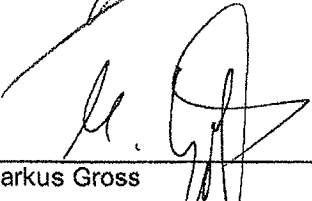
Marc Thill

Date: April 8, 2011

Signature: *X* 


Guy Harles

Date: April 08, 2011

Signature: *X* 


Markus Gross

Date: April 8, 2011

Signature: *X* 

Jos Wouters

Date: April 8, 2011

Signature: *X* 

Georges Krier