

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Amedeo Capozzoli</td> <td>05/24/2012</td> </tr> <tr> <td>Claudio Curcio</td> <td>05/24/2012</td> </tr> <tr> <td>Angelo Liseno</td> <td>05/24/2012</td> </tr> <tr> <td>Guissepee D'Elia</td> <td>05/24/2012</td> </tr> <tr> <td>Pietro Vinetti</td> <td>05/25/2012</td> </tr> <tr> <td>Giovanni Tosco</td> <td>06/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Amedeo Capozzoli	05/24/2012	Claudio Curcio	05/24/2012	Angelo Liseno	05/24/2012	Guissepee D'Elia	05/24/2012	Pietro Vinetti	05/25/2012	Giovanni Tosco	06/25/2012
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Agence Spatiale Europeenne</td> </tr> <tr> <td>Street Address:</td> <td>8-10, Rue Mario Nikis</td> </tr> <tr> <td>City:</td> <td>Paris cedex 15</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>75738</td> </tr> </table>		Name:	Agence Spatiale Europeenne	Street Address:	8-10, Rue Mario Nikis	City:	Paris cedex 15	State/Country:	FRANCE	Postal Code:	75738				
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<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13395628</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13395628										
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Application Number:	13395628														
CORRESPONDENCE DATA															
Fax Number:	(704)444-1111														
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name:	Timothy J. Balts														
Address Line 1:	101 S. Tryon Street, Suite 4000														
Address Line 2:	Alston & Bird LLP														
Address Line 4:	Charlotte, NORTH CAROLINA 28280-4000														
ATTORNEY DOCKET NUMBER:	033339/416857														

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NAME OF SUBMITTER:

Timothy J. Balts

Total Attachments: 4

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Assignment of Application

Page 1 of 2

WHEREAS, I (We),

INSERT NAME
AND RESIDENCE
ADDRESSES OF
INVENTORS:

1. CAPOZZOLI Amedeo
2. CURCIO Claudio
3. LISENO Angelo
4. D'ELIA Giuseppe
5. VINETTI Pietro
6. TOSO Giovanni

1. C.so Umberto I 115A, 80078 Pozzuoli (NA) Italy
2. Via Mario De Sena 250, 80035 Nola (NA) Italy
3. Via San Tammaro, Parco delle Rose Scala D, 81043 Capua (CE) Italy
4. Via Girone 25, 80078 Pozzuoli (NA) Italy
5. Contrada Santa Rosalia E25, 87020 Acquappesa (CS) Italy
6. Koningstraat 3 c, 2011 TB, Haarlem the Netherlands

, respectively,

INSERT TITLE

have invented certain new and useful improvements in:

OF INVENTION:

Aperiodic and non-planar array of electromagnetic scatterers, and reflectarray antenna comprising the same

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on

and,

WHEREAS, **AGENCE SPATIALE EUROPEENNE** (hereinafter referred to as "ASSIGNEE"), having a place of business at **8-10, Rue Mario Nikis 75738 Paris cedex 15 France**, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and its territorial possessions and in any and all foreign countries;

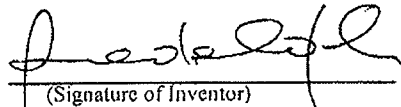
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I/WE, by theses presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any all and all foreign countries to issue any and all said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of ALSTON & BIRD LLP Bank of America Plaza 101 South Tryon Street, Suite 4000 CHARLOTTE, NORTH CAROLINA 28280-4000 U.S.A. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

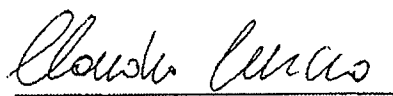
Date: MAY, 24 2012



(Signature of Inventor)

CAPOZZOLI Amedeo

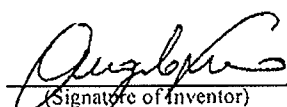
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(Signature of Inventor)

CURCIO Claudio

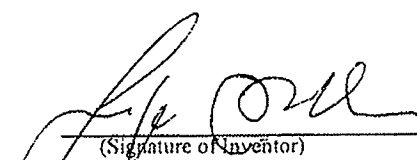
Date: MAY 24, 2012



(Signature of Inventor)

LISENO Angelo

Date: MAY 24, 2012



(Signature of Inventor)

D'ELIA Giuseppe

Date: _____

(Signature of Inventor)

VINETTI Pietro

Date: _____

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TOSO Giovanni

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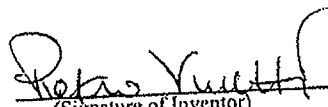
Date: _____

(Signature of Inventor)
LISENO Angelo

Date: _____

(Signature of Inventor)
D'ELIA Giuseppe

Date: 25/5/2012



(Signature of Inventor)
VINETTI Pietro

Date: _____

(Signature of Inventor)
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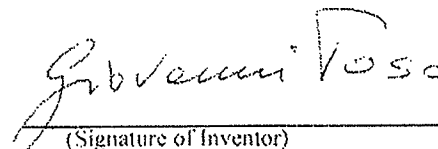
D'ELIA Giuseppe

Date: _____

(Signature of Inventor)

VINETTI Pietro

Date: 25/06/2012



(Signature of Inventor)

TOSO Giovanni