

PATENT ASSIGNMENT COVER SHEET

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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>PUSHKAR PRASAD PATWARDHAN</td> <td>10/01/2013</td> </tr> <tr> <td>RAVI SHENOY</td> <td>10/01/2013</td> </tr> </tbody> </table>		Name	Execution Date	PUSHKAR PRASAD PATWARDHAN	10/01/2013	RAVI SHENOY	10/01/2013
Name	Execution Date						
PUSHKAR PRASAD PATWARDHAN	10/01/2013						
RAVI SHENOY	10/01/2013						
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City:	ESPOO						
State/Country:	FINLAND						
Postal Code:	02150						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14039357</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14039357		
Property Type	Number						
Application Number:	14039357						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	SANDY FONG-HOU						
Signature:	/Sandy Fong-Hou/						
Date:	11/21/2013						
Total Attachments: 2 source=NC79497_ExecutedAssign#page1.tif source=NC79497_ExecutedAssign#page2.tif							

CH \$40.00 14039357

ASSIGNMENT - WORLDWIDE

I/We (The ASSIGNOR(S)):

Pushkar Prasad Patwardhan
Ravi Shenoy

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby assign to (hereafter referred to as The ASSIGNEE):

Nokia Corporation
Keilalahdenite 4
FI-02150 Espoo
Finland.

An invention entitled (invention Title):

METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR CATEGORICAL SPATIAL ANALYSIS-SYNTHESIS ON SPECTRUM OF MULTICHANNEL AUDIO SIGNALS

The PATENT RIGHTS referred to in this agreement are:

- a national Patent Application No. filed on
- European Patent Application No. filed on
- PCT application No. filed on

for this invention, executed by the ASSIGNOR(S)

- U.S. Patent Application Serial No. 14/039357, filed September 27, 2013
- U.S. Patent No. _____, issued _____

The PATENT RIGHTS assigned under this agreement are:

- U.S. Patent rights
- worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any Patent Application identified above.

The ASSIGNOR(S) do hereby assign the following to each ASSIGNEE, their successors and assigns:

the full and exclusive right to the invention;

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications, and

the right to claim priority under 35 U.S.C. § 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(S), their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE(S), or their representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(S), their successors and assigns, to obtain and enforced proper protection for said invention.

Further, I/We authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.).

NC79497-US-NP

Each Inventor: Please sign and date below:

[Signature]
[Pushkar Prasad Patwardhan]

1-10-2013
Date

[Signature]
Witness Signature
Printed Name V. MUNDLER

1-10-2013
Date

[Signature]
[Ravi Shency]

1-10-2013
Date

[Signature]
Witness Signature
Printed Name V. MUNDLER

1-10-2013
Date