

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Antero TOSSAVAINEN</td> <td>04/24/2013</td> </tr> <tr> <td>Vesa KAJANUS</td> <td>04/23/2013</td> </tr> <tr> <td>Petri SORONEN</td> <td>04/23/2013</td> </tr> </tbody> </table>		Name	Execution Date	Antero TOSSAVAINEN	04/24/2013	Vesa KAJANUS	04/23/2013	Petri SORONEN	04/23/2013		
Name	Execution Date										
Antero TOSSAVAINEN	04/24/2013										
Vesa KAJANUS	04/23/2013										
Petri SORONEN	04/23/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Nokia Corporation</td> </tr> <tr> <td>Street Address:</td> <td>Keilalahdentie 4</td> </tr> <tr> <td>City:</td> <td>Espoo</td> </tr> <tr> <td>State/Country:</td> <td>FINLAND</td> </tr> <tr> <td>Postal Code:</td> <td>02150</td> </tr> </table>		Name:	Nokia Corporation	Street Address:	Keilalahdentie 4	City:	Espoo	State/Country:	FINLAND	Postal Code:	02150
Name:	Nokia Corporation										
Street Address:	Keilalahdentie 4										
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>13880439</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13880439						
Property Type	Number										
Application Number:	13880439										
CORRESPONDENCE DATA											
<p>Fax Number:  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: sandy.fong-hou@nokia.com</p> <p>Correspondent Name: Nokia, Inc. Attn: Intellectual Property</p> <p>Address Line 1: 200 South Mathilda Ave</p> <p>Address Line 4: Sunnyvale, CALIFORNIA 94086</p>											
ATTORNEY DOCKET NUMBER:	NC73284-US-PCT										
NAME OF SUBMITTER:	Sandy Fong-Hou										
Signature:	/Sandy Fong-Hou/										
Date:	06/10/2013										

CH \$40.00 13880439

Total Attachments: 6

source=73284\_ExecutedAssignment#page1.tif

source=73284\_ExecutedAssignment#page2.tif

source=73284\_ExecutedAssignment#page3.tif

source=73284\_ExecutedAssignment#page4.tif

source=73284\_ExecutedAssignment#page5.tif

source=73284\_ExecutedAssignment#page6.tif

## ASSIGNMENT

Title of Invention	A DISPLAY APPARATUS
This Assignment is directed to (check all that apply):	
<input type="checkbox"/> U.S. Provisional No. _____ filed on _____	
<input checked="" type="checkbox"/> U.S. Application No. <u>13/880439</u> filed on <u>April 19, 2013</u>	
<input checked="" type="checkbox"/> which is a 371 National Stage of <u>PCT/IB10/054726</u> filed on <u>October 19, 2010</u>	

As the below named inventor(s), I/we have invented certain improvements in the patent application for which I/we have filed an application for Letters Patent of the United States of America as identified above;

WHEREAS, 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.);

WHEREAS, NOKIA CORPORATION, a corporation organized under the laws of Finland, having its principal office in Espoo, Finland (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and under the said invention and the said application, and in and to any and all Letters Patent which shall be granted therefore in the United States of America and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we have sold and do hereby sell, assign, transfer and convey unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and to said invention and application, and in all divisionals, reissues, substitutions, continuations, continuation-in-part and, in any and all Letters Patents of the United States of America and all foreign countries or reissues, reexaminations, or extensions thereof which may be granted therefore or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

I/WE ALSO HEREBY authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom to the said ASSIGNEE of my/our entire right, title and interest.

I/WE FURTHER HEREBY sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including, without limitation, the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries. I/we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I/WE HEREBY covenant that I/we have not and I/we will not execute any agreement in conflict herewith.

*R.*

I WE HEREBY further covenant, and agree to bind my/our heirs, legal representatives, and assigns, promptly to communicate to said ASSIGNEE or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said ASSIGNEE, its successors, assigns, and other legal representatives.

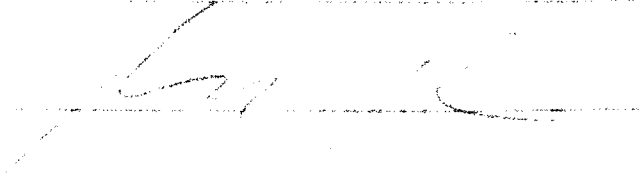
IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Antero TOSSAVAINEN

Date:

24/4/2013

Signature:



Residence:

Espoo, Finland

**ASSIGNMENT**

Title of Invention	A DISPLAY APPARATUS
<p>This Assignment is directed to (check all that apply):</p> <p><input type="checkbox"/> U.S. Provisional No. _____ filed on _____</p> <p><input checked="" type="checkbox"/> U.S. Application No. <u>13/880439</u> filed on <u>April 19, 2013</u></p> <p><input checked="" type="checkbox"/> which is a 371 National Stage of <u>PCT/IB10/054726</u> filed on <u>October 19, 2010</u></p>	

As the below named inventor(s), I/we have invented certain improvements in the patent application for which I/we have filed an application for Letters Patent of the United States of America as identified above;

WHEREAS, 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.);

WHEREAS, NOKIA CORPORATION, a corporation organized under the laws of Finland, having its principal office in Espoo, Finland (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and under the said invention and the said application, and in and to any and all Letters Patent which shall be granted therefore in the United States of America and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we have sold and do hereby sell, assign, transfer and convey unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and to said invention and application, and in all divisionals, reissues, substitutions, continuations, continuation-in-part and, in any and all Letters Patents of the United States of America and all foreign countries or reissues, reexaminations, or extensions thereof which may be granted therefore or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

I/WE ALSO HEREBY authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom to the said ASSIGNEE of my/our entire right, title and interest.

I/WE FURTHER HEREBY sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including, without limitation, the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries. I/we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I/WE HEREBY covenant that I/we have not and I/we will not execute any agreement in conflict herewith.

**ASSIGNMENT**

I/WE HEREBY further covenant, and agree to bind my/our heirs, legal representatives, and assigns, promptly to communicate to said ASSIGNEE or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said ASSIGNEE, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Antero TOSSAVAINEN Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Residence: Oulu, Finland

**ASSIGNMENT**

IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Vesa KAJANUS Date: 23.04.2013

Signature: V. K Residence: Oulunsalo, Finland

WITNESS: Eero Yli-Penttilä 23.4.-13  
Eero Yli-Rantala

**ASSIGNMENT**

IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Petri SORONEN Date: 23.04.2013

Signature:  Residence: Oulu, Finland

WITNESSES: Eero Yli-Santala 23.4.-13  
Eero Yli-Ranta