

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Antti Olli Hallapuro</td> <td>08/24/2009</td> </tr> <tr> <td>Kemal Ugur</td> <td>08/24/2009</td> </tr> <tr> <td>Jani Lainema</td> <td>08/24/2009</td> </tr> </tbody> </table>		Name	Execution Date	Antti Olli Hallapuro	08/24/2009	Kemal Ugur	08/24/2009	Jani Lainema	08/24/2009		
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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
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CORRESPONDENCE DATA											
<p>Fax Number: (972)894-5619 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 972 894 5931 Email: denise.m.wilson@nokia.com Correspondent Name: Nokia, Inc. Address Line 1: 6021 Connection Drive, MS 2-5-520 Address Line 4: Irving, TEXAS 75039</p>											
ATTORNEY DOCKET NUMBER:	62835-US-NP										
NAME OF SUBMITTER:	Anand Gupta										

CH \$120.00 12407588

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**PATENT
 REEL: 023138 FRAME: 0905**

Total Attachments: 4

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ASSIGNMENT

WHEREAS, we,

(1)	Antti Olli Hallapuro	of	Tampere, Finland
(2)	Kemal Ugur	of	Tampere, Finland
(3)	Jani Lainema	of	Tampere, Finland

have invented certain improvements in

COMBINED MOTION VECTOR AND REFERENCE INDEX PREDICTION FOR VIDEO CODING

For which we have executed the following applications for Letters Patent of the United States of America

Application No. 61/038008 filed March 19, 2008;
Application No. 61/043366 filed April 8, 2008; and
Application No. 12/407588 filed March 19, 2009

WHEREAS, 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, 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.

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 entire right, title and interest.


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. 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.

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

WE HEREBY further covenant, and agree to bind our heirs, legal representatives, and assigns, promptly to communication to said ASSIGNEE or its representatives any facts known to us 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.

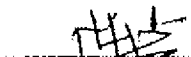
IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date indicated below.



Antti Olli Hallapuro

2009-AUG-24

Date




Witness Signature
Printed Name SUJEEV MAITI

Date 24-8-2009

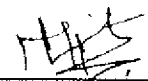
Docket No.: NC62835-US-NP
Customer No.: 73658

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



Kemal Ugur

2009-Aug-24
Date




Witness Signature
Printed Name SWEET MATE

Date 24-8-2009


Docket No.: NC62835-US-NP
Customer No.: 73658

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



Jani Lainema

2009-12-24
Date



Witness Signature

Printed Name SUTEET MATE

Date 24-8-2009