

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>Freddy Roozeboom</td> <td>03/31/2011</td> </tr> <tr> <td>Eric Cornelis Egbertus Van Grunsven</td> <td>04/18/2011</td> </tr> <tr> <td>Franciscus Hubertus Marie Sanders</td> <td>03/28/2011</td> </tr> <tr> <td>Maria Mathea Antonetta Burghoorn</td> <td>03/25/2011</td> </tr> </tbody> </table>		Name	Execution Date	Freddy Roozeboom	03/31/2011	Eric Cornelis Egbertus Van Grunsven	04/18/2011	Franciscus Hubertus Marie Sanders	03/28/2011	Maria Mathea Antonetta Burghoorn	03/25/2011
Name	Execution Date										
Freddy Roozeboom	03/31/2011										
Eric Cornelis Egbertus Van Grunsven	04/18/2011										
Franciscus Hubertus Marie Sanders	03/28/2011										
Maria Mathea Antonetta Burghoorn	03/25/2011										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>NXP B.V.</td> </tr> <tr> <td>Street Address:</td> <td>High Tech Campus 60</td> </tr> <tr> <td>City:</td> <td>Eindhoven</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> <tr> <td>Postal Code:</td> <td>5656 AG</td> </tr> </table>		Name:	NXP B.V.	Street Address:	High Tech Campus 60	City:	Eindhoven	State/Country:	NETHERLANDS	Postal Code:	5656 AG
Name:	NXP B.V.										
Street Address:	High Tech Campus 60										
City:	Eindhoven										
State/Country:	NETHERLANDS										
Postal Code:	5656 AG										
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>13126286</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13126286						
Property Type	Number										
Application Number:	13126286										
CORRESPONDENCE DATA											
<p>Fax Number: 4085185671</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 4085185540</p> <p>Email: peter.zawilski@nxp.com</p> <p>Correspondent Name: Peter Stephen Zawilski</p> <p>Address Line 1: NXP Intellectual Property & Licensing</p> <p>Address Line 2: 411 Plumeria Drive M/S-41</p> <p>Address Line 4: San Jose, CALIFORNIA 95134</p>											
ATTORNEY DOCKET NUMBER:	81355502 US05										
NAME OF SUBMITTER:	PETER ZAWILSKI										
<p>Total Attachments: 3</p> <p>source=81355502US05_Assign_2013-FEB-04#page1.tif</p> <p>source=81355502US05_Assign_2013-FEB-04#page2.tif</p> <p>source=81355502US05_Assign_2013-FEB-04#page3.tif</p>											

CH \$40.00 13126286

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we, as below-named Assignors, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to **NXP B.V.**, having a place of business at High Tech Campus 60, NL-5656 AG, Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

(1) our invention relating to "**THROUGH-SUBSTRATE VIA AND REDISTRIBUTION LAYER WITH METAL PASTE**" for which the following patent applications have been filed (we hereby authorize and request our attorneys associated with U.S. Patent & Trademark Office Customer Number 65913 to insert below the filing date and application number of the U.S. application when known):

<u>Country</u>	<u>Application No.</u>	<u>Filing Date (mm/dd/yyyy)</u>	<u>Claims Priority of</u>
US	13/126286	04/27/2011	PCT/IB2009/054641
PCT	PCT/IB2009/054641	10/21/2009	EP8167954.0
EP	08167954.0	10/30/2008	--

(2) the foregoing applications and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority there from including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and

(3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to **NXP B.V.**, for its sole use, and that of its successors, assigns, and legal representatives.

We will provide our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

We certify that we have the full right to convey the above rights.

31-3-2011 _____, Assignor
Date Freddy ROOZEBOOM

_____, Assignor
Date Eric Cornelis Egbertus VAN GRUNSVEN

20-03-2011 _____, Assignor
Date Franciscus Hubertus Marie SANDERS

_____, Assignor
Date Maria Mathea Antonetta BURGHOOORN

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we, as below-named Assignors, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to **NXP B.V.**, having a place of business at High Tech Campus 60, NL-5656 AG, Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

(1) our invention relating to **"THROUGH-SUBSTRATE VIA AND REDISTRIBUTION LAYER WITH METAL PASTE"** for which the following patent applications have been filed (we hereby authorize and request our attorneys associated with U.S. Patent & Trademark Office Customer Number 65913 to insert below the filing date and application number of the U.S. application when known):

<u>Country</u>	<u>Application No.</u>	<u>Filing Date (mm/dd/yyyy)</u>	<u>Claims Priority of</u>
US	13/126286	04/27/2011	PCT/IB2009/054641 EP8167954.0
PCT	PCT/IB2009/054641	10/21/2009	EP8167954.0
EP	08167954.0	10/30/2008	---

(2) the foregoing applications and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority there from including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and

(3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to **NXP B.V.**, for its sole use, and that of its successors, assigns, and legal representatives.

We will provide our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

We certify that we have the full right to convey the above rights.

_____ Date	_____ Freddy ROOZEBOOM	_____, Assignor
18-04-2011 Date	_____ Eric Cornelis Egbertus VAN GRUNSVEN	_____, Assignor
_____ Date	_____ Franciscus Hubertus Marie SANDERS	_____, Assignor
_____ Date	_____ Maria Mathea Antonetta BURGHOOORN	_____, Assignor

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we, as below-named Assignors, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to NXP B.V., having a place of business at High Tech Campus 60, NL-5656 AG, Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

(1) our invention relating to "THROUGH-SUBSTRATE VIA AND REDISTRIBUTION LAYER WITH METAL PASTE" for which the following patent applications have been filed (we hereby authorize and request our attorneys associated with U.S. Patent & Trademark Office Customer Number 65913 to insert below the filing date and application number of the U.S. application when known):

<u>Country</u>	<u>Application No.</u>	<u>Filing Date (mm/dd/yyyy)</u>	<u>Claims Priority of</u>
US	13/126286	04/27/2011	PCT/IB2009/054641 EP8167954.0
PCT	PCT/IB2009/054641	10/21/2009	EP8167954.0
EP	08167954.0	10/30/2008	--

(2) the foregoing applications and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority there from including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and

(3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to NXP B.V., for its sole use, and that of its successors, assigns, and legal representatives.

We will provide our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

We certify that we have the full right to convey the above rights.

_____	_____, Assignor
Date	Freddy ROOZEBOOM
_____	_____, Assignor
Date	Eric Cornelis Egbertus VAN GRUNSVEN
_____	_____, Assignor
Date	Franciscus Hubertus Marie SANDERS
_____	_____, Assignor
Date	Maria Mathea Antonetta BURGHOOORN
25-3-2011	<i>Burghoorn</i>