

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>Yasuo Hidaka</td> <td>12/17/2012</td> </tr> <tr> <td>Pradip Thachile</td> <td>01/14/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yasuo Hidaka	12/17/2012	Pradip Thachile	01/14/2013
Name	Execution Date						
Yasuo Hidaka	12/17/2012						
Pradip Thachile	01/14/2013						
RECEIVING PARTY DATA							
Name:	Fujitsu Limited						
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City:	Kanagawa						
State/Country:	JAPAN						
Postal Code:	211-8588						
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>13742168</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13742168		
Property Type	Number						
Application Number:	13742168						
CORRESPONDENCE DATA							
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ATTORNEY DOCKET NUMBER:	073338.1134						
NAME OF SUBMITTER:	Tracy E. Perez						
Total Attachments: 3 source=1134Assignment#page1.tif source=1134Assignment#page2.tif source=1134Assignment#page3.tif							

CH \$40.00 13742168

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ASSIGNMENT

WHEREAS, I, one of the undersigned joint inventors, of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Fujitsu Limited (hereinafter referred to as "Assignee"), with an address of 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One United States Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all provisionals, divisions, reissues, continuations, continuations-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

We also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including 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 to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and 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 right, title and interest in Assignee.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

ATTORNEY DOCKET NO.
073338.1134

ASSIGNMENT

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Title: **OPTIMIZED VIA CUTOUTS WITH GROUND REFERENCES**

Inventor(s): Yasuo Hidaka and Pradip Thachile

Full Name of Inventor: Yasuo Hidaka

Inventor's Signature: Yasuo Hidaka

Date: Dec 17, 2012

Residence (City, County, State): Cupertino, Santa Clara County, California

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073338.1134


PATENT
REEL: 029633 FRAME: 0981

Title: **OPTIMIZED VIA CUTOUTS WITH GROUND
REFERENCES**

Inventor(s): Yasuo Hidaka and Pradip Thachile

Full Name of Inventor: Pradip Thachile

Inventor's Signature:



Date:

JANUARY 19th 2013

Residence (City, County, State): San Jose, Santa Clara County, California