

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thomas JACKSON	03/29/2011
Guo CHEN	03/29/2011
Larry CRONISE	03/29/2011
Peter HOU	03/29/2011
Barre LANKFORD	03/29/2011
Edmund LOTT	03/29/2011
Prakash HARI	03/29/2011
Arul THANGAVELU	03/29/2011
Rajesh JOSHI	03/29/2011
Keith RUSSELL	04/01/2011

RECEIVING PARTY DATA

Name:	Hughes Network Systems, LLC
Street Address:	11717 Exploration Lane
City:	Germantown
State/Country:	MARYLAND
Postal Code:	20876

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13078612

CORRESPONDENCE DATA

Fax Number: (312)827-8000
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 312-372-1121
Email: chicago.patents@klgates.com
Correspondent Name: K&L Gates LLP
Address Line 1: P.O. BOX 1135

OP \$40.00 13078612

501488866

**PATENT
 REEL: 026063 FRAME: 0278**

Address Line 4: CHICAGO, ILLINOIS 60690

ATTORNEY DOCKET NUMBER:

0361913-1218

NAME OF SUBMITTER:

Craig Plastrik

Total Attachments: 3

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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I (we) the undersigned, Thomas JACKSON, Guo CHEN, Larry CRONISE, Peter HOU, Barre LANKFORD, Edmund LOTT, Prakash HARI, Arul THANGAVELU, Rajesh JOSHI, Keith RUSSELL hereby sell, assign, and transfer to Hughes Network Systems, LLC, a corporation of Delaware, having a principal place of business at 11717 Exploration Lane, Germantown, MD, 20876, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent, entitled:

METHOD AND APPARATUS FOR INTEGRATED WAVEGUIDE
TRANSMIT-RECEIVE ISOLATION, FILTERING, AND CIRCULAR
POLARIZATION

- which has been executed by the undersigned concurrently herewith,
 which was filed on _____ and assigned Serial No. _____

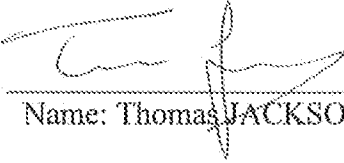
and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all assignments and powers of attorney; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

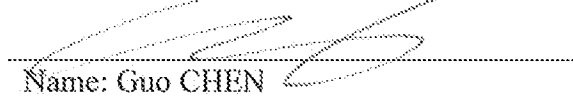
covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:


3/29, 2011
Date


Name: Thomas JACKSON


3/29, 2011
Date


Name: Guo CHEN

3/29, 2011
Date


Name: Larry CRONISE

3/29, 2011
Date


Name: Peter HOU

3/29, 2011
Date


Name: Barre LANKFORD


3/29, 2011
Date


Name: Edmund LOTT

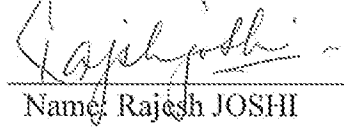
3/29, 2011
Date


Name: Prakash HARI

03/29/, 2011
Date


Name: Arul THANGAVELU

3/29/, 2011
Date


Name: Rajesh JOSHI

_____, 20____
Date

Name: Keith RUSSELL

Each Inventor: Please Sign and Date Below:

_____, 20____
Date Name: Thomas JACKSON

_____, 20____
Date Name: Guo CHEN

_____, 20____
Date Name: Larry CRONISE

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Date Name: Edmund LOTT

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Date Name: Prakash HARI

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Date Name: Arul THANGAVELU

_____, 20____
Date Name: Rajesh JOSHI

01 APR, 2011
Date 
Name: Keith RUSSELL