### 503245393 04/01/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3292011

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ANDROS X THOMSON	02/25/2015
YT HO	03/26/2015

### **RECEIVING PARTY DATA**

Name:	ECHOSTAR TECHNOLOGIES LLC	
Street Address:	100 INVERNESS TERRACE EAST	
City:	ENGLEWOOD	
State/Country:	COLORADO	
Postal Code:	80112	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14583555

### **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 301-299-4624

Email: Craig@potomactechlaw.com

Correspondent Name: POTOMAC TECHNOLOGY LAW, LLC

Address Line 1: 9713 SOTWEED DRIVE

Address Line 4: POTOMAC, MARYLAND 20854

ATTORNEY DOCKET NUMBER: P2013-08-18	
NAME OF SUBMITTER:	CRAIG PLASTRIK
SIGNATURE: /Craig Plastrik/	
DATE SIGNED:	04/01/2015

**Total Attachments: 2** 

source=US-App-No\_14583555\_Assignment#page1.tif source=US-App-No\_14583555\_Assignment#page2.tif

PATENT 503245393 REEL: 035307 FRAME: 0267

# **PATENT ASSIGNMENT**

Assignor(s):	Mr. Andros THOMSON, Mr. YT HO
Assignee:	Echostar Technologies LLC
	100 Inverness Terrace East, Englewood, Colorado, 80112
Patent Applic	ration(s):
Title:	A BACK-DRILLING METHOD FOR A PIN-IN-HOLE PCB COMPONENT PROCESS, AND A PCB ASSEMBLY PRODUCED THEREBY
Construction of the Constr	executed by the undersigned concurrently herewith
$\boxtimes$	Application No(s): 14583555 Filing Date: 2014-12-26
the above-na	nsideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, med Assignors, hereby: assign and transfer to the above-named Assignee (and its successors, assigns and legal
(1) the above are disclosed patent applic countries, bas original and r foreign count priority arisin agree said improve Assignment, I all divisional, to the Application powers of att facts relating (and its succe the Application patents a representative	res) the entire right, title and interest (for the United States and all foreign countries) in and to: e-identified patent application(s) ("the Application(s)"), including any and all improvements that in the Application(s); and (2) all divisional, continuing, substitute, renewal, reissue and all other ations, which have been or are subsequently filed in the United States and any and all foreign sed on or claiming priority to the Application(s), or based on any of said improvements; and (3) all reissued patents that have been or are subsequently issued in the United States and any and all rights of g from the Application(s) or based on any of said improvements; and (4) any and all rights of g from the filing of the Application(s) in the United States and any and all foreign countries; and that the Assignee may apply for and receive a patent or patents from the Application(s) and for ments in its own name; and that, to carry out in good faith the intent and purpose of this /we (without charge to, but at the expense of the Assignee) shall: execute the Application(s), and continuing, substitute, renewal, reissue and other patent applications based on or claiming priority ention(s), or based on any and all of said improvements, and execute all associated assignments and to the Application(s) said improvements and the history thereof; and generally assist the Assignee (sons), assigns and legal representatives) in securing and maintaining proper patent protection for on(s) and said improvements, and for vesting title in and to the Application(s), and all applications and all patents on said improvements, in the Assignee (and its successors, assigns and legal representatives) that no assignment, and mant with the Assignee (and its successors, assigns and legal representatives) that no assignment, and mant with the Assignee (and its successors, assigns and legal representatives) that no assignment, and mant with the Assignee (and its successors, assigns and legal representatives) that no assignment, and mant with the A
grant, mortga	rge, license, or other agreement affecting the rights and property herein conveyed has been made the Assignor(s), and that full right to convey the same as herein expressed is possessed by the
Assignor(s).	A. M.

YT HO:

Date:

# PATENT ASSIGNMENT

Assignor(s):	Mr. Andros THOMSON, Mr. YT HO	
Assignee:	Echostar Technologies LLC	
	100 Inverness Terrace East, Englewood, Colorado, 80112	
Patent Applica	ation(s):	
Title:	A BACK-DRILLING METHOD FOR A PIN-IN-HOLE PCB COMPONENT PROCESS, AND A PCB ASSEMBLY PRODUCED THEREBY	
	executed by the undersigned concurrently herewith	
123	Application No(s): 14583555 Filing Date: 2014-12-26	
	sideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, ned Assignors, hereby:	
representative (1) the above- are disclosed in patent applicate countries, base original and re foreign countr priority arising agree said improven Assignment, I/ all divisional, or to the Applicate powers of attor facts relating to (and its success the Application for patents ar representative	issign and transfer to the above-named Assignee (and its successors, assigns and legal its) the entire right, title and interest (for the United States and all foreign countries) in and to: identified patent application(s) ("the Application(s)"), including any and all improvements that in the Application(s); and (2) all divisional, continuing, substitute, renewal, release and all other itions, which have been or are subsequently filed in the United States and any and all foreign and on or claiming priority to the Application(s), or based on any of said improvements; and (3) all elected patents that have been or are subsequently issued in the United States and any and all lessued patents that have been or are subsequently issued in the United States and any and all rights of (from the Application(s) or based on any of said improvements; and (4) any and all rights of (from the filing of the Application(s) in the United States and any and all foreign countries; and that the Assignee may apply for and receive a patent or patents from the Application(s) and forments in its own name; and that, to carry out in good faith the intent and purpose of this we (without charge to, but at the expense of the Assignee) shall: execute the Application(s), and ontinuing, substitute, renewal, reissue and other patent applications based on or claiming priority ion(s), or based on any and all of said improvements, and execute all associated assignments and improvement to the Application(s) assignments and other Application(s) said improvements and the history thereof; and generally assist the Assignee sors, assigns and legal representatives) all known the Application(s), and all applications and all patents on said improvements, in the Assignee (and its successors, assigns and legal said improvements, in the Assignee (and its successors, assigns and legal and with the Assignee (and its successors, assigns and legal and with the Assignee (and its successors).	
grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the Assignor(s), and that full right to convey the same as herein expressed is possessed by the Assignor(s).		
Date:	Andros THOMSON:	
Ogte:2	015-03-26 YTHO 47-03-26	

Page 1 of 1