

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Towfique Haider</td><td>10/31/2007</td></tr><tr><td>Kazunobu Shin</td><td>10/31/2007</td></tr></tbody></table>	Name	Execution Date	Towfique Haider	10/31/2007	Kazunobu Shin	10/31/2007	
Name	Execution Date						
Towfique Haider	10/31/2007						
Kazunobu Shin	10/31/2007						
RECEIVING PARTY DATA							
Name:	Texas Instruments Inc						
Street Address:	7839 Churchill Way						
Internal Address:	MS 3999						
City:	Dallas						
State/Country:	TEXAS						
Postal Code:	75251						
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>11931518</td></tr></tbody></table>	Property Type	Number	Application Number:	11931518			
Property Type	Number						
Application Number:	11931518						
CORRESPONDENCE DATA							
Fax Number:	(972)917-4418						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	9729175290						
Email:	r-barnum@ti.com						
Correspondent Name:	Robert D. Marshall, Jr.						
Address Line 1:	7839 Churchill Way						
Address Line 2:	MS 3999						
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ATTORNEY DOCKET NUMBER:	TI-62567						
NAME OF SUBMITTER:	Robert D. Marshall, Jr.						
Total Attachments: 1 source=62567_Asgn#page1.tif							

CH \$40.00 11931518

PATENT

500388038

REEL: 020046 FRAME: 0066

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or 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, the said application having been executed on the date set forth below; and

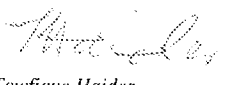
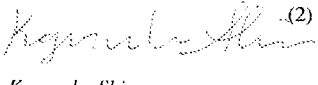
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a principal office at P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Smart Antenna Interface Using Only Digital I/O Supporting Both Mode A and Mode B Antenna Operation as Per CEA 909 Standard Using a Single Digital Counter		
SIGNATURE OF INVENTOR AND NAME	(1)  Towfique Haider	(2)  Kazunobu Shin	(3) n/a
DATE	10/31/07	31 Oct 2007	
RESIDENCE (City, State)	2020 Stonemont Ct. Allen, TX 75013 US	908 Hedgecoxe Rd Plano, TX 75025 US	
DATE APPLICATION EXECUTED	10/31/07	31 Oct 2007	

After recordation, please return Assignment to:

Robert D. Marshall, Jr.
Texas Instruments Incorporated
P.O. Box 655474, MS 3999

PATENT

RECORDED: 10/31/2007

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