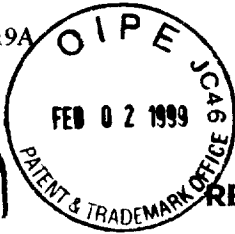


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FORM PTO-1619A
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Name (line 1) Yamanoi, Koyu

Name (line 2) _____

Second Party

Name (line 1) Kobayashi, Hiroshi

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Name (line 1) Texas Instruments Incorporated

Name (line 2) A Corporation of Delaware

Address (line 1) 7839 Churchill Way, M/S 3999

Address (line 2) _____

Address (line 3) Dallas

City

TX/USA

State/Country

75251

Zip Code

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Area Code and Telephone Number (972) 917-5633

Name W. Daniel Swayze, Jr.

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Address (line 3) P. O. Box 655474

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09/225,125

Patent Number(s)

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1

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Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

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Richard A. Bachand, Reg. No. 25,107

Name of Person Signing

Richard A. Bachand

Signature

1/29/99

Date

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, filed on January 4, 1999 and assigned the serial number 09/225,125 in the United States Patent and Trademark Office; and


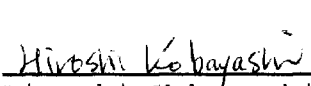
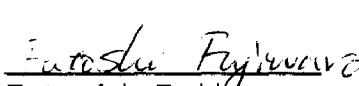
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the state of Delaware, with a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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 and 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 of Patents and Trademarks 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	WIDE CAPTURE RANGE CIRCUITRY		
SIGNATURE OF INVENTOR and NAME	 Koyu Yamanoi	 Hiroshi Kobayashi	 Futoshi Fujimura
DATE	1-28-99	1-28-'99	1-28-'99
RESIDENCE (City, County, State)	Funabashi-shi, Chiba-ken, Japan	Tomaku, Kawasaki- shi, Kanagawa- ken, Japan	Kouhoku-ku, Kanagawa-ken, Japan
DATE APPLICATION EXECUTED	January 28, 1999	January 28, 1999	January 28, 1999

After recording, return Assignment to:

Texas Instruments Incorporated
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Dallas, TX 75251