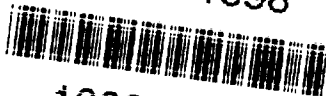


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Attorney Docket 4576-99

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1. Name of conveying party(ies):

Choong Reul YANG
Wol Yon HWANG
Hyun Hah HONG
Sun Gyu HAN
Heuk PARK

2. Name and address of receiving party(ies):

Name: (1) Electronics and Telecommunications Research
Institute (2) Korea Telecom

Internal Address:

Street Address: (1) 161 Gajung-Dong, Yusong-ku, (2) 100
Sejongno, Chongno-ku

City: (1) Daejeon (2) Seoul

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Execution Date: 11/25/98

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If this document is being filed together with a new application, the execution date of the application is: 11/25/98

A. Patent Application No.(s)
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5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Martin B. Pavane

Internal Address: Cohen, Pontani, Lieberman & Pavane

Street Address: 551 Fifth Avenue, 12th Floor

City: New York State: New York Zip: 10176

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$40.00

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Martin B. Pavane
Name of Person Signing
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December 2, 1998
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PATENT
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ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, We/I the undersigned, Choong Reul YANG, Wol Yon HWANG, Hyun Hah HONG,
Sun Gyu HAN & Heuk PARK
(hereinafter referred to as "ASSIGNOR").

Hereby sell, assign and transfer to _____
ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE &
KOREA TELECOM
(hereinafter referred to as "ASSIGNEE"), a corporation of Republic of Korea,
respectively,

having a place of business at 161 Kajong-Dong, Yusong-Gu, Taejeon,
305-350, Korea & 206 Jungja-Dong, Pundang-Gu, Sungnam, Kyunggi,
463-711, Korea

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 which are disclosed in the application for United States Letters Patent,

☐ which was filed on _____ and accorded
U.S. Serial No. _____,

☒ which has been executed by the undersigned concurrently herewith,
and is entitled BIAS VOLTAGE STABILIZING METHOD FOR ELECTRICITY-OPTICAL
MODULATOR BASED ON OFF-LEVEL SAMPLING

_____ and in and to said application and
all divisional, continuing, substitute, renewal, reissue, and all other applications
for Letters Patent which 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 which have been or shall be issued in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent 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 rightful oaths, assignments, powers of attorney and other papers, 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 do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding 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

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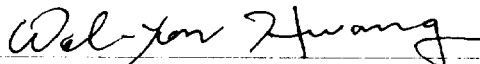
Date: 11/25/98
month/day/year

Yang C-R
Signature of First Inventor

Witness

Witness

Date: 11 / 25 / 98
month/day/year


Signature of Second Inventor

Witness

Witness


Date: 11 / 25 / 98
month/day/year


Signature of Third Inventor

Witness

Witness

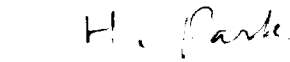
Date: 11 / 25 / 98
month/day/year


Signature of Fourth Inventor

Witness

Witness

Date: 11 / 25 / 98
month/day/year


Signature of Fifth Inventor

Witness

Witness