PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Ju-Hee KIM	06/20/2007
Shang-Lim SHIN	09/20/2007
Kyung-Soo KIM	06/26/2007

RECEIVING PARTY DATA

Name:	Electronics and Telecommunications Research Institute	
Street Address: 161, Gajeong-dong, Yuseong-gu		
City: Daejeon		
State/Country: KOREA, REPUBLIC OF		
Postal Code: 305-350		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	11869360	

CORRESPONDENCE DATA

Fax Number: (703)518-5499

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-535-7340
Email: kchae@ipfirm.com
Correspondent Name: Yoon S. Ham

Address Line 1: 1700 Diagonal Road

Address Line 2: Lowe Hauptman Ham & Berner, LLP

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 123054-0003

NAME OF SUBMITTER: Yoon S. Ham

Total Attachments: 3

source=71009_123054-0003_Assignment#page1.tif

PATENT REEL: 019935 FRAME: 0271

500372005

P \$40.00

source=71009_123054-0003_Assignment#page2.tif source=71009_123054-0003_Assignment#page3.tif

PATENT REEL: 019935 FRAME: 0272

٠			Docket No.:	
		ASSIG	GNMENT	
In co which is here	onsideration of the premises and othe by acknowledged, the undersigned,	r good and	valuable consideration in hand paid, the receipt and sufficient	ncy of
1)	KIM, Ju-Hee	2)	SHIN, Shang-Lim	
. 3)	KIM, Kyung-Soo			
Yuseong-ge "ASSIGNE 100 in the i	u. Daejeon 305-350, Republic E") the entire right, title and in nvention entitled	of Kore	h, hereby sells, assigns and transfers unto Electr having a place of business at 161, Gajeong- ea, its successors and assigns (hereinafter design r the United States of America as defined in 35 U	dong, nated I.S.C.
				
(a) Ior v Unite	which an application for United Stated States Patent Application No.	es Letters F	Patent was filed on, and identif	ied by
			ent was executed on,	
an Officer State continuations- Property to the agrees that the AND application for ASSIGNEE, it applications for ASSIGNEE, it	tes Letters Patent which may be gran in-part thereof, and the right to all e said ASSIGNEE, for its interest as attorneys of record in said application the undersigned hereby agrees to and obtaining original, divisional, reits successors, assigns and legal repressor patent based thereon, growing out	ted therefore benefits un ASSIGNEE a shall hereat transfer a assued or exentatives, a coffor relations as a coffor relations.	Is States Commissioner of Patents and Trademarks to issue and re and any and all extensions, divisions, reissues, continuational representational Convention for the Protection of Indexity is successors, assigns and legal representatives; the under after act on behalf of said ASSIGNEE; like interest, and to render all necessary assistance in a stended Letters Patent of the United States, upon request of the und without further remuneration, in and to any improvement ted to the said invention; and to execute any papers by the deemed essential to ASSIGNEE's full protection and title in	ons, or ustrial signed naking ne said is, and
SIGNED on th	e date indicated aside my signature:	•		
1)Name: KIM	Ju-Hee	<u></u>	06/20/2001 Date:	
2)	G.			
Name: SHIN	, onang-Lim		Date:	
- 3)				
Name: KIM,	Kyung-Soo		Date:	٠

PATENT REEL: 019935 FRAME: 0273

Docket No.:	1820060529
-------------	------------

ASSIGNMENT

In consideration of the premises and other which is hereby acknowledged, the undersigned,	good and valuable consideration in hand paid, the receipt and sufficiency of
women is merend, environmentalist the mineralistical	

i) KIM, Ju-Hee

3) Name: KIM, Kyung-Soo

- 2) SHIN, Shang-Lim
- KIM, Kyung-Soo

who has made a certain new and useful invention, hereby sells, assigns and transfers unto Electronics and Telecommunications Research Institute having a place of business at 161. Gajeong-dong. Yuseong-gu. Daejeon 305-350, Republic of Korea, its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

RELAY AND METHOD OF ALLOCATING BANDWIDTH IN COMMUNICATION SYSTEM

(a)	for which an application for United States I United States Patent Application No.	otters Patent was filed on, and identified by
(b)	for which an application for United States Let	ters Patent was executed on
all Uni continu Proper	ted States Letters Patent which may be granted attions-in-part thereof, and the right to all ben	e United States Commissioner of Patents and Trademarks to issue any and therefore and any and all extensions, divisions, reissues, continuations, or sefits under the International Convention for the Protection of Industrial SIGNEE, its successors, assigns and legal representatives; the undersigned sell hereafter act on behalf of said ASSIGNEE;
ASSIG applica ASSIG	ation for and obtaining original, divisional, reissuince, its successors, assigns and legal representations for patent based thereon, growing out of	nsfer a like interest, and to render all necessary assistance in making sed or extended Letters Patent of the United States, upon request of the said atives, and without further remuneration, in and to any improvements, and for related to the said invention; and to execute any papers by the said tatives, deemed essential to ASSIGNEE's full protection and title in and to
SIGNE	ED on the date indicated aside my signature;	
1)		
Name	s: KIM, Ju-Hee	Date:
2)	m	201. 4. 20
Name	: SHIN, Shang-Lim	Date:
•		·

Date:

PATENT

REEL: 019935 FRAME: 0274

		A	SSIG	NMENT
which is	In con hereb	nsideration of the premises and other go y acknowledged, the undersigned,	ood and v	valuable consideration in hand paid, the receipt and sufficiency of
	1)	KIM, Ju-Hee	2)	SHIN, Shang-Lim
	3)	KIM, Kyung-Soo		· · · · ·
Yuseon "ASSIC	eleco 1g-gu 3NE 1the ir	ommunications Research Inst L. Daejeon 305-350, Republic of E") the entire right, title and intented invention entitled	itute hare to the following th	having a place of business at 161, Gajeong-dong, at its successors and assigns (hereinafter designated the United States of America as defined in 35 U.S.C.
(a)	for w Unite	hich an application for United States I d States Patent Application No.	Letters Pa	Patent was filed on, and identified by; or
(b)	for w	hich an application for United States Let	ters Pater	nt was executed on,
all United continuat Property agrees that application ASSIGNI application ASSIGNI the invent	d State tions-it to the at the AND on for EE, its ons for EE, its tion he	es Letters Patent which may be granted n-part thereof, and the right to all ber a said ASSIGNEE, for its interest as AS attorneys of record in said application shall be the undersigned hereby agrees to train and obtaining original, divisional, reissus a successors, assigns and legal represent repatent based thereon, growing out of a successors, assigns and legal represented the successors, assigns and legal represented the successors.	therefore nefits und SIGNEE, nall hereat unsfer a l ned or ext tatives, and f or relate	States Commissioner of Patents and Trademarks to issue any and re and any and all extensions, divisions, reissues, continuations, or der the International Convention for the Protection of Industrial is, its successors, assigns and legal representatives; the undersigned after act on behalf of said ASSIGNEE; like interest, and to render all necessary assistance in making tended Letters Patent of the United States, upon request of the said and without further remuneration, in and to any improvements, and ted to the said invention; and to execute any papers by the said deemed essential to ASSIGNEE's full protection and title in and to
SIGNED	on the	e date indicated aside my signature:		
1)				
Name: 1	KIM,	Ju-Hee		Date:
2) Name: \$	SHIN,	, Shang-Lim		Date:
3) Name: I	KIM,	M Z Kyung-Soo		Date: SUN SOUJ

Docket No.: _

PATENT

RECORDED: 10/09/2007 REEL: 019935 FRAME: 0275