	rm PTO-1595 12 - 26 - 2	
1-3-92ETTER Patent and Trademark Office		
To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.		
1.	Name of conveying party(ies):	
'-	Jong In Choi; Sang Yeon Kim; Dong II Han	2. Name and address of receiving party(ies):
2.	Additional name(s) of conveying party(ies) attached?   Yes   No	LG Electronics Inc. 20, Yoido-dong, Youngdungpo-gu Seoul, Korea
3.	Nature of conveyance: 12   18   02	Seoul, Rolea
	☐ Assignment ☐ Merger	الم
	☐ Security Agreement ☐ Change of Name	
	Other	
	Execution Date: December 17, 2002	Additional name(s) & address(es) attached? ☐ Yes ☒ No
4.	4. Application number(s) or patent number(s): FILED HEREWITH  If this document is being filed together with a new application, the execution date of the application is:  December 17, 2002  A. Patent Application No.(s) N/A  B. Patent No.(s)	
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5.	Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved: [ 1 ]
	F. JASON FAR-HADIAN, Esq. LEE & HONG P.C.	7. Total fee (37 CFR 3.41) \$40
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OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:

PATENT REEL: 013596 FRAME: 0572

2080-3-141 Attorney Docket No.

## **ASSIGNMENT**

Insert Name(s) of Inventor(s)

Jong In CHOI; Sang Yeon KIM; Dong II HAN

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and

hereby does assign, transfer and set over to

LG Electronics Inc. Republic of Korea

Insert state of incorporation of Assignee

Insert identification of Invention, such as Title, Case Number or

Foreign Application Number

Insert address of Assigner

20, Yoido-dong, Youngdungpo-gu, Seoul, Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in

the invention known as

FINITE IMPULSE RESPONSE FILTER

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding

thereto phased thereon.

Insert Date of Signing of Application

Dec. 11, 2002.

The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

- The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest. herein assigned, and that he has (they have) not executed any agreement in conflict herewith. The undersigned hereby appoints JONATHAN Y. KANG, REG. NO. 38,199; RICHARD K. YOON, REG. NO. 42,247;

EDWARD GRAY, REG. NO. 35,166; DAVID N. MAKOUS, REG. NO. 29,559; JOHN S. CHRISTOPHER, REG. NO.

30,937

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Vec. n. 2002 Signature of Inventor Date:

Det . II. 2002 Signature of Inventor Date

Dec. 11, 2012 Date:

Signature of Inventor

Date:

Signature of Inventor

Date:

Signature of Inventor

PATENT REEL: 013596 FRAME: 0573