

12-14-2007

FORM PTO-1595



IEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Pat.

103468899

ned original documents or copy thereof.

1. Name of conveying party(ies):

1) ZHOUYUE PI

Additional name(s) of conveying party(ies) attached? ☐ Yes
☒ No

3. Nature of conveyance

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

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

SAMSUNG ELECTRONICS CO., LTD.,
*a corporation chartered in and existing under the laws of
the Republic of Korea*
416 Maetan-dong, Yeongtong-gu
Suwon-si, Gyeonggi-do 442-370
Republic of KOREA

Additional name(s) & addresses attached? ☐ Yes ☒ NoExecution Date: 26 October 2007

4. Application number(s) or Patent number(s):

If this document is being filed together with a new application, the execution of the application is: 11 2007

A. Patent Application No.(s)

11/979,829

B. Patent No.(s)

Additional number(s) attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Robert E. Bushnell**
Attorney at Law
Suite 300, 1522 "K" Street, N.W.
Washington, D.C. 20005-1202
(202) 408-9040

6. Total Number of applications and patents involved: ONE7. Total fee (37 CFR § 3.41) \$ U.S. \$40.00

- ☒ Enclosed (Check# 53456)
☐ Authorized to be charged to deposit account

8. Deposit Account Number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT E. BUSHNELL

Name of Person Signing

Signature

11 December 2007

Date

Total number of pages including cover sheet: TWO

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with the required cover sheet information to:
Commissioner of Patents and Trademarks
Box Assignments
Alexandria, VA 22313-1450

REB/rd (Attorney's Docket No.: P58438)

12/13/2007 K06TACH0 00000025 11979829

01 FC:0021

40.00 UP

PATENT

REEL: 020258 FRAME: 0941

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:
IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: **SAMSUNG ELECTRONICS CO., LTD.,**
a corporation chartered in and existing under the laws of the Republic of Korea,

ADDRESS: 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 442-370, Republic of Korea

Who is my Assignee, and to the successors and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: METHODS AND APPARATUS FOR MAPPING CONTROL CHANNELS TO RESOURCES IN OFDM SYSTEMS

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment, or is more particularly identified as:

executed on even date herewith, or

X Serial No. 11/979,829 filed in the U.S. Patent & Trademark Office on 8 November 2007, or

executed on _____,

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said **SAMSUNG ELECTRONICS CO., LTD.**, my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute, without receiving any money or other consideration, any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of all substitute applications, certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreement or treaty to which the United States of America adheres;

AND I do hereby authorize and request the Commissioner of Patent & Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request R. E. Bushnell, Reg. No. 27,774, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply the rules of the United States Patent & Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(s)

Date Signed

Witness(es)

1) *Zhouyue Pi* (Seal)
ZHOUYUE PI

10/26/2007



2) _____ (Seal)

Lori L. Deninger
10/26/07

Additional inventors are being named on separately numbered sheets attached hereto.

0002/PTO

U.S. Department of Commerce
Patent and Trademark Office

COMPLETE IF KNOWN

FEE TRANSMITTAL

Application
Number

11/979,829

Filing Date

11/8/2007

First Named
Inventor

Zhouyue Pi, et al.

Group Art Unit

2616

Examiner Name

TOTAL AMOUNT OF PAYMENT

\$40.00

Attorney Docket
Number

P58438

METHOD OF PAYMENT (check one)

☒ Payment enclosed:☒ Check # 53456

FEE CALCULATION

Fee Code Fee(s) Fee Description

8021 40.00 Assignment
Recordation

Fee Paid \$40.00

TOTAL \$40.00

submitted by:

Robert E. Bushnell, Esq.
Suite 300, 1522 "K" Street, N.W.
Washington, D.C. 20005-1202Printed
Name

Robert E. Bushnell

Registration No. 27,774

Signature



Date

December 11, 2007

REB/rd

PATENT

RECORDED: 12/11/2007

REEL: 020258 FRAME: 0943