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1-31-92

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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): **4-25-03**
 Syuichi SEKINE, Mutsumu SERIZAWA, Hiroki SHOKI, Hiroshi
 Tsurumi, Shuichi OBAYASHI, Kiyoshi TOSHIMITSU, Tomoko
 ADACHI, Tsuguhide AOKI, Ren SAKATA, and Ryoko MATSUO

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

3. Nature of Conveyance:

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

Execution Date: April 24, 24, 24, 24, 16, 24, 24, 24, 24,
and 24, 2003

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

Name: KABUSHIKI KAISHA TOSHIBA
 Address: 1-1, Shibaura 1-Chome, Minato-Ku,
 Tokyo, Japan

Additional name(s) and address(es) attached? ☐ Yes ☒ No

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

10422699If this document is being filed together with a new application, the execution date of the application is: April 24, 24, 24, 24, 16,
24, 24, 24, 24, and 24, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:**22850**Tel. (703) 413-3000
Fax. (703) 413-2220

6. Total applications and patents involved: 1

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

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 15-0030
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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.*

Marvin J. Spivak

Name of Person Signing

Signature

4/25/03

Date

C. Irvin McClelland

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04/28/2003 FFANAEIA 00000008 10422699

03 FC:8021

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PATENT
 REEL: 014011 FRAME: 0152

Toshiba's Ref. No.: 13G085093US-A

譲渡証 (Translation/日本語訳)

下記に署名した私/私達、

_____は、

ある発明を創出し、これについて合衆国特許出願は

- ☐ ここに私/私達により署名され、
- ☐ _____に私/私達により(それぞれ)署名され、
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その発明は

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さらに、私/私達は、株式会社 東 芝（以下譲受人と言う）が単数ないしは複数の当該発明（以下当該発明という）に関わる特許権を、自己の名により、合衆国とその属領及び全ての外国に於いて出願し、特許を受けること；またこの譲渡証の意図と目的を誠実に実行することを求められた場合、下記に署名した私/私達が、当該譲受人、その後継者、その被譲渡者、及び法定代理人の費用負担にて、一部継続出願、継続出願、分割出願、差替え出願、再発行出願、特許期間延長等を行い、合法的宣誓書、譲渡証、委任状等の書類を作成し、あらゆる法的または準法的訴訟手続に於いて証言を行うこと；当該発明とその経緯に関連して、下記に署名した私/私達が知り得た全ての事実を、当該譲受人、後継者、被譲渡者、及び法定代理人に連絡すること；そして当該譲受人、後継者、被譲渡者、及び法定代理人が、当該発明の特許権の適切な保護、維持、権利行使するために望ましいと考慮すること、また、当該発明に関わる特許出願に際し、当該譲受人、後継者、被譲渡者、及び法定代理人に対して法的権限を付与することが望ましいと考慮することについて、可能な限り行うことを承諾する。

Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, I/WE, the undersigned,

Syuichi SEKINE, Mutsumu SERIZAWA, Hiroki SHOKI, Hiroshi TSURUMI, Shuichi OBAYASHI, Kiyoshi TOSHIMITSU, Tomoko ADACHI, Tsuguhide AOKI, Ren SAKATA and Ryoko MATSUO, who have created a certain invention for which an application for United States Letters Patent

- ☒ executed by ME/US on even date herewith,
- ☐ executed by ME/US on _____ (respectively),
- ☐ filed on _____ and assigned Serial No. _____,
- ☐ filed as International Application No. _____ filed on _____

and entitled:

" WIRELESS COMMUNICATION APPARATUS AND METHOD OF WIRELESS COMMUNICATION "

Do hereby sell, assign and transfer to KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, having a place of business at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that KABUSHIKI KAISHA TOSHIBA, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

そして、私/私達は、この書面により譲渡された権利や財産に影響する、如何なる譲渡、授権、抵当権、ライセンス等その他の協定も他の第三者との間で行っていないこと；下記に署名した私/私達によって、この書面に記載されている権利が所有されていることを、当該譲受人、後継者、被譲渡者、及び法定代理人に対して誓約するものである。

さらに、下記に署名した私/私達はこの譲渡書は英語の部分の表現によってのみ解釈されることに同意する。

上記を証明するため、私/私達は下記日付で署名する。

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

I/WE, the undersigned do further agree that this Assignment is to be construed solely according to the terms of the English language portions thereof.

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature seal on the date indicated below.

唯一または第一発明者名	Full name of sole or first inventor	Syuichi SEKINE	
発明者の署名	日付	Inventor's signature	Date
		<i>Syuichi Sekine</i>	April 24, 2003
第二共同発明者 (いる場合)	Full name of second joint inventor, if any	Mutsumu SERIZAWA	
第二共同発明者の署名	日付	Second Inventor's signature	Date
		<i>Mutsumu Serizawa</i>	April 24, 2003
第三共同発明者 (いる場合)	Full name of third joint inventor, if any	Hiroki SHOKI	
第三共同発明者の署名	日付	Third Inventor's signature	Date
		<i>Hiroki Shoki</i>	April 24, 2003
第四共同発明者 (いる場合)	Full name of fourth joint inventor, if any	Hiroshi TSURUMI	
第四共同発明者の署名	日付	Fourth Inventor's signature	Date
		<i>Hiroshi Tsurumi</i>	April 24, 2003
第五共同発明者 (いる場合)	Full name of fifth joint inventor, if any	Shuichi OBAYASHI	
第五共同発明者の署名	日付	Fifth Inventor's signature	Date
		<i>Shuichi Obayashi</i>	April 16, 2003
第六共同発明者 (いる場合)	Full name of sixth joint inventor, if any	Kiyoshi TOSHIMITSU	
第六共同発明者の署名	日付	Sixth Inventor's signature	Date
		<i>Kiyoshi Toshimitsu</i>	April 24, 2003
第七共同発明者 (いる場合)	Full name of seventh joint inventor, if any	Tomoko ADACHI	
第七共同発明者の署名	日付	Seventh Inventor's signature	Date
		<i>Tomoko Adachi</i>	April 24, 2003
第八共同発明者 (いる場合)	Full name of eighth joint inventor, if any	Tsuguhide AOKI	
第八共同発明者の署名	日付	Eighth Inventor's signature	Date
		<i>Tsuguhide Aoki</i>	April 24, 2003

第九共同発明者 (いる場合)	Full name of ninth joint inventor, if any
第九共同発明者の署名	Ren SAKATA
日付	Ninth Inventor's signature
	Ren Sakata
	April 24, 2003
第十共同発明者 (いる場合)	Full name of tenth joint inventor, if any
第十共同発明者の署名	Ryoko MATSUO
日付	Tenth Inventor's signature
	Ryoko Matsuo
	April 24, 2003
第十一共同発明者 (いる場合)	Full name of eleventh joint inventor, if any
第十一共同発明者の署名	Eleventh Inventor's signature
日付	Date
第十二共同発明者 (いる場合)	Full name of twelfth joint inventor, if any
第十二共同発明者の署名	Twelfth Inventor's signature
日付	Date
第十三共同発明者 (いる場合)	Full name of thirteenth joint inventor, if any
第十三共同発明者の署名	Thirteenth Inventor's signature
日付	Date
第十四共同発明者 (いる場合)	Full name of fourteenth joint inventor, if any
第十四共同発明者の署名	Fourteenth Inventor's signature
日付	Date
第十五共同発明者 (いる場合)	Full name of fifteenth joint inventor, if any
第十五共同発明者の署名	Fifteenth Inventor's signature
日付	Date
第十六共同発明者 (いる場合)	Full name of sixteenth joint inventor, if any
第十六共同発明者の署名	Sixteenth Inventor's signature
日付	Date
第十七共同発明者 (いる場合)	Full name of seventeenth joint inventor, if any
第十七共同発明者の署名	Seventeenth Inventor's signature
日付	Date
第十八共同発明者 (いる場合)	Full name of eighteenth joint inventor, if any
第十八共同発明者の署名	Eighteenth Inventor's signature
日付	Date