Attorney Docket No. <u>020331</u>

03-27-2002



MENT OF COMMERCE ent and Trademark Office

102033632

Director of Patents and Trademarks: Please record the attached original documents or copy thereof.

Submission type: X New

Conveyance type: X Assignment

Conveying Party(ies): (Last, First, Middle Initial) **Execution Date**

First party Name: **OHSHIMA**, Toshio March 8, 2002

Second party Name:

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

Receiving Party (ies):

First party Name: **FUJITSU LIMITED**

> Address: 1-1 Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,

> > Kanagawa 211-8588, Japan

Additional name(s) & address(es) attached? Yes No XX

Domestic Representative Name and Address (Enter for the first Receiving Party only)

> ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K Street, N.W., Suite 1000 Washington, D.C. 20006

> > For Office Use Only

3/22/2002 MMEK#HEN 00000015 10100073

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PATENT

REEL: 012709 FRAME: 0854

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Correspondent Name and Address ARMSTRONG, WESTERMAN & HATTORI, LLP 1725 K Street, N.W., Suite 1000 Washington, D.C. 20006			
Pages Enter the total number of pages of the attached conveyance document:			
Application Number(s) or Patent Number(s) Additional numbers attached? Yes No XX A. Patent Application No.(s) ## B. Patent No.(s) ## If this document is being filed together with a new application, enter the date the application was			
signed by the first named executing inventor: March 8, 2002 (Do not recite both application and patent numbers.)			
Patent Cooperation Treaty (PCT) Enter PCT application number only if a U.S. Application Number has not been assigned PCT PCT PCT PCT PCT PCT PCT PC			
Number of Properties Enter the total number of properties involved: 1			
Fee Amount Fee Amount for Properties Listed (37 CFR 3.41) \$40.00 XX Enclosed			
Authorized to be charged to Deposit Account No.: 01-2340			
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. Stephen G. Adrian Name of Person Signing Signature			
March 19, 2002 32,878 Date Registration No.			

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Docket	No.	

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by (Insert ASSIGNEE's FUJITSU LIMITED Name(s) Address(es)) 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi Kanagawa 211-8588 Japan (hereinaster ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled OUANTUM CIRCUIT DEVICE AND METHOD FOR QUANTUM OPERATION (Title of Invention) for which application for Letters Patent of the United States was executed on even date herewith (*If the assignment is unless otherwise indicated below: being filed after the filing of the application, this , Serial No. section must be *filed on (Armstrong, Westerman, Hattori, McLeland & Naughton is hereby authorized to insert the series completed) code, serial number and/or filing date hereon, when known) and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted. The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient. The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). (Signatures) Tocher Chohima Toshio Ohshima March 8, 2002 (SIGNATURE) (TYPE NAME) (DATE) (SIGNATURE) (TYPE NAME) (DATE)

NO LEGALIZATION REQUIRED

(SIGNATURE)

PATENT REEL: 012709 FRAME: 0856

(TYPE NAME)

(DATE)

RECORDED: 03/19/2002