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REC

3. 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):

CAIN, PAUL  
FERGUSON, ANDREW  
WILLIAMS, DAVID

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

5-30-02

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

Name: HITACHI, LTD.

Internal

Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku

Street Address:

City: Tokyo, JAPAN State: \_\_\_\_\_ Zip: \_\_\_\_\_☐ Other

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_Execution Date: April 4, 21, 2002 and May 7, 2002.Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

10/011,732, filed December 11, 2001

B. Patent Registration No.(s)

Additional number(s) attached ☐ Yes ☒ No

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

Name: Antonelli, Terry, Stout & Kraus, LLP

Internal Address:

1300 North Seventeenth Street  
Suite 1800  
Arlington, VA 22209  
USA

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

6. Total number of 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:

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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.

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PATENT  
REEL: 012936 FRAME: 0010

## ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

CAIN; Paul, Flat 2, 3 St Barnabas Road, Cambridge, UKFERGUSON; Andrew, 18 City Road, Cambridge, UKWILLIAMS; David, 15 Bateman Mews, Cambridge, UK

(full name(s) and post office address(s) of inventor(s) (including country))

(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:

QUANTUM COMPUTER

(title of discovery or invention)

☐ for which application for Letters Patent of the United States has been executed on even date herewith,☒ for which application for Letters Patent of the United States has been filed on 11 December 2001, under Serial No. 10/011,732, and

WHEREAS:

HITACHI LIMITED

(name and address of assignee)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of ONE Dollar (\$), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

I, SAID ASSIGNOR(S), hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and

