

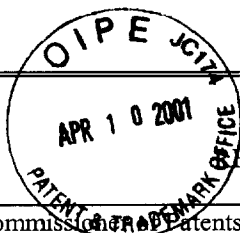
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U.S. DEPARTMENT OF COMMERCE

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PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Gareth LOUDON, Tai Hou TNG and Hong CHEN

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

Kent Ridge Digital Labs
21 Heng Mui Keng Terrace
Singapore 119613

AND

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014

Additional name(s) of conveying party(ies) attached?

yes

XX - no

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Names☐ Other

Additional name(s) & address(es) attached?

☐ yes☒ noExecution Date: March 28, March 28 and April 4, 2001,
respectively

4. Application number(s) or patent number(s): Attorney Docket Q-62077

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

A. Patent Application No.(s)
09/719,090

B. Patent No.

Additional attached?

☐ Yes☒ No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:

1

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

☒ Enclosed. Please charge any underpayment in
connection with this Assignment to Deposit Account No. 19-4880.☐ Authorized to be charged to Deposit Account

8. Deposit Account No.

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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.

Robert V. Sloan / Reg. No. 33,725

April 10, 2001

Date

Robert V. Sloan

Reg. No. 22,775

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PATENT
REEL: 011677 FRAME: 0735

Assignment

Q-62077

Whereas, I/We, Gareth Hugh LOUDON and Tai Hou TNG
Singapore
Hong CHEN of San Francisco, CA, USA

, hereinafter called assignor(s), have invented certain improvements in
Recognition Process

and executed an application for Letters Patent of the United States of America therefor on
March 28, 2001, March 28, 2001 ; and April 4, 2001, respectively, AND

Whereas, Kent Ridge Digital Labs & Apple Computer, Inc.
21 Heng Mui Keng Terrace 1 Infinite Loop
Singapore 119613 Cupertino, CA 95014
(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to
any United States and foreign patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America and all countries foreign thereto, including rights of priority under
the International Convention of Paris (1883) as amended, and I/we request the Commissioner of Patents
to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its
successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent
on the invention and I/we will execute without further consideration all papers deemed necessary by the
assignee in connection with the United States and foreign applications when called upon to do so by
the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application
number 09/719,090, filed December 8, 2000) the filing date and application
number of said application when known.

Date: 28/3/2001 s/ Gareth Hugh LOUDON

Date: 28/3/2001 s/ Tai Hou TNG

Date: 4/4/2001 s/ Hong CHEN

Date: s/

Date: s/

(Notarization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)