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<p>1. Name of conveying parties:</p> <p>Ji Wang Jiun-Der Yu Yook-Kong Yong</p> <p>Additional name(s) of conveying party(ies) attached?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party:</p> <p>Name: <b>Epson Research and Development, Inc.</b></p> <p>Internal Address:</p> <p>Street Address: <b>225 Baypointe Parkway San Jose, CA 95134-1627</b></p> <p>Additional name(s) and addresses attached?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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Execution Date: February 22, 2000, February 7, 2000 and February 11, 2000, respectively.

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:

<p>A. Patent Application No(s). 09/451,381</p>	<p>B. Patent No(s).</p>
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Additional numbers attached?  Yes  No

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

Intellectual Property Department  
Epson Research And Development Inc.  
225 Baypointe Parkway  
San Jose, CA 95134

6. Total number of applications and patents involved:  
1

7. Total fee (37 CFR 3.41) .....\$40.00  
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8. Deposit Account Number: 19-2746

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

**John C. Chen**  Date: February 28, 2000  
Registration No. **39,136**

Total number of pages including cover sheet, attachments and document: 2

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/WE, the undersigned,  
Ji Wang, Jiun-Der Yu, Yook-Kong Yong and Tsutomu Imai

who have created a certain invention for which an application for United States Letters Patent has been filed on November 30, 1999, Serial No. 09/451,381 and entitled

**DETERMINATION OF VIBRATION FREQUENCY CHARACTERISTICS OF ELECTRODED CRYSTAL PLATE**

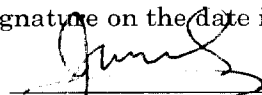
Do hereby sell, assign and transfer to **EPSON RESEARCH AND DEVELOPMENT, INC.**, a corporation of California, having a place of business at 225 Baypointe Parkway, San Jose, CA 95134-1627, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application 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 **EPSON RESEARCH AND DEVELOPMENT, INC.**, 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

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

Date: 02/22/00  
Month/Day/Year

  
\_\_\_\_\_  
Ji Wang

Date: 02/07/2000  
Month/Day/Year

  
\_\_\_\_\_  
Jiun-Der Yu

Date: 02/11/2000  
Month/Day/Year

  
\_\_\_\_\_  
Yook-Kong Yong

Date: \_\_\_\_\_  
Month/Day/Year

\_\_\_\_\_  
Tsutomu Imai