

12-14-1998

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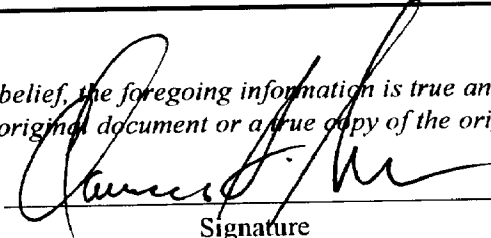
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Commissioner of Patents and Trademark

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<p>1. Name of conveying party(ies):</p> <ol style="list-style-type: none"> Satoru TANAKA Hideki HATANO Takashi YAMAJI <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><i>MPD 12/13/98</i></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Pioneer Electronic Corporation</p> <p>Address: 4-1, Meguro 1-chome Meguro-ku</p> <p>City: Tokyo State: ZIP Code:</p> <p>Country: Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: 1. October 26, 1998 2. October 27, 1998 3. October 30, 1998</p>	<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p> <p>A. Patent Application No.(s): 09/166,467 B. Patent No.(s):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Clarence A. Green Address: Perman & Green, LLP 425 Post Road</p> <p>City: Fairfield</p> <p>State: CT ZIP Code: 06430-6232</p>	<p>6. Total number of applications and/or patents involved: 1</p> <p>7. Total fee (37 CFR 3.41):\$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account</p> <p>8. Deposit account number: <u>16-1350</u></p>
<p>DO NOT USE THIS SPACE</p>	
<p>9. Statement And Signature:</p> <p><i>To the best of my knowledge and belief, the foregoing information is true and correct and, the attached document is either an original document or a true copy of the original document.</i></p> <p><u>Clarence A. Green</u> Name of Person Signing</p> <p> Signature</p> <p><i>24 Nov 98</i> Date</p> <p>Total number of pages including cover sheet(s): 3</p> <p>Page 1 of 1.</p>	

12/08/1998 09:00:00 09166467 40.00 CF

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Pioneer Electronic Corporation

having the address:

4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

VOLUME HOLOGRAPHIC MEMORY

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on October 5, 1998,

Serial No. 09/166,467

1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or devotional applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

2. The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference.

3. The undersigned agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial property or similar agreements.

4. The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

5. The undersigned hereby authorize and request the commissioner of Patents in the United States and the appropriate national or regional authority in each foreign country to issue any and all Letters Patents resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE, as ASSIGNEE of the entire interest, and hereby covenants that they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned names.

The undersigned hereby authorize the firm of
PERMAN & GREEN, LLP at the address of
425 Post Road, Fairfield, CT. 06430, U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

October 26, 1998
Date

Satoru Tanaka
Typed Name: Satoru TANAKA

October 27, 1998
Date

Hideki Hatano
Typed Name: Hideki HATANO

October 30, 1998
Date

Takashi Yamaji
Typed Name: Takashi YAMAJI

Date

Typed Name:

Date

Typed Name: