



03-27-2000

PATENT



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

<p>1. Name of conveying party(ies):</p> <p>(1) Atsuo Hattori (2) Chiharu Iriguchi (3)</p> <p>Additional names(s) of conveying party(ies) attached? NO</p>	<p>2. Name and Address of receiving party(ies):</p> <p>Yamaha Corporation 10-1, Nakazawa-cho, Hamamatsu-shi Shizuoka, JAPAN</p> <p>Additional name(s) & address(es) attached? NO</p>			
<p>3. Nature of conveyance:</p> <p>Assignment</p> <p>Execution Date: (1) 2/9/00 and (2) 2/21/00</p>				
<p>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> <table border="1"> <tr> <td data-bbox="178 808 812 976"> <p>A. Application No.(s)</p> <p>09/460,358</p> </td> <td data-bbox="812 808 1404 976"> <p>B. Patent No.(s)</p> </td> </tr> </table> <p>Additional numbers attached? NO</p>		<p>A. Application No.(s)</p> <p>09/460,358</p>	<p>B. Patent No.(s)</p>	
<p>A. Application No.(s)</p> <p>09/460,358</p>	<p>B. Patent No.(s)</p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403</p>	<p>6. Total number of documents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$ 40.00</p> <p>Enclosed as part of Check No. _____</p> <p><small>In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.</small></p>			
<p>DO NOT USE THIS SPACE</p>				
<p>8. <i>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.</i></p> <table border="0"> <tr> <td data-bbox="235 1480 446 1543"> <p>Steven I. Weisburd Name of Person Signing</p> </td> <td data-bbox="641 1459 1006 1543" style="text-align: center;"> Signature </td> <td data-bbox="1096 1480 1364 1543"> <p>March 17, 2000 Date</p> </td> </tr> </table> <p>Total number of pages including cover sheet, attachments, and document: 2</p>		<p>Steven I. Weisburd Name of Person Signing</p>	 Signature	<p>March 17, 2000 Date</p>
<p>Steven I. Weisburd Name of Person Signing</p>	 Signature	<p>March 17, 2000 Date</p>		

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PATENT APPLICATION ASSIGNMENT -
SOLE OR JOINT INVENTORS
EXECUTED OUTSIDE U.S.A.

OFGS FILE NO. 1/2171-178 (-)

WHEREAS, I (We), Atsuo HATTORI, and Chiharu IRIGUCHI
as assignor(s), have invented certain improvements in
MANUFACTURE OF A FIELD EMISSION ELEMENT WITH FINED EMITTER ELECTRODE
for
which an application for United States Letters Patent has been executed by me (us) of even
date herewith; and

WHEREAS, YAMAHA CORPORATION
10-1, Nakazawa-cho, Hamamatsu-shi,
Shizuoka, Japan
as assignee, is desirous of acquiring all right, title and interest in and to said invention
and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
valuable consideration, the receipt of which is hereby acknowledged, I (We), as assignor(s),
hereby sell, assign and set over to said assignee the entire right, title and interest for
the United States and all other countries in and to said invention and the aforesaid
application for Patent, all original, divisional, continuation, substitute or reissue
applications and patents applied for or granted therefor in the United States and all other
countries, including all rights of priority from the filing of said application, and all
rights for past infringement, and the Commissioner of Patents and Trademarks is hereby
authorized and requested to issue all patents on said inventions or resulting therefrom to
said assignee herein, as assignee of the entire interest therein; and the undersigned for
myself (ourselves) and my (our) legal representatives, heirs and assigns do hereby agree and
covenant without further remuneration, to execute and deliver all divisional, continuation,
reissue and other applications for Patent on said inventions and all assignments thereof to
said assignee or its assigns, to communicate to said assignee or its representatives all
facts known to the undersigned respecting said inventions, whenever requested, to testify in
any interferences or other legal proceedings in which any of said applications or patents may
become involved, to sign all lawful papers, make all rightful oaths, and to do generally
everything necessary to assist assignee, its successors, assigns and nominees to obtain
patent protection for said invention in the United States and all other countries, the
expenses incident to said applications to be borne and paid by said assignee.

Date: Feb. 9, 2000

Atsuo Hattori
Atsuo HATTORI

Date: Feb. 21, 2000

Chiharu Iriguchi
Chiharu IRIGUCHI

Date: _____

Date: _____

LEGALIZATION RECOMMENDED