

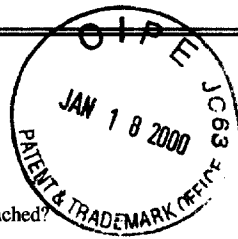
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To the Honorable Commissioner of Patents and Trademarks. Please re:



<p>1. Name of conveying party(ies): Toshitaka OGAWA Toshio HIKI</p> <p>Additional names of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p> <p>3. Nature of Conveyance <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: December 3, 1999</p>	<p>2. Name and address of receiving party(ies): Name: HITACHI KOKI CO., LTD. Internal Address: Street Address: 15-1, Konan 2-chome, Minato-ku City: Tokyo 108-6020 Country: Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
<p>4. Application number(s) or patent number(s): Title: RECORDING DEVICE INCLUDING BUFFER MECHANISM FOR TRANSPORTING RECORDING MEDIUM IN FORWARD AND REVERSE DIRECTIONS 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). 09/453,811 filed on December 3, 1999 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: C. Lamont Whitham Whitham, Curtis & Whitham Reston International Center 11800 Sunrise Valley Drive Suite 900 Reston, Virginia 20191</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41): \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Total fee due <input checked="" type="checkbox"/> Any deficiencies in the enclosed fees</p> <p>8. Deposit account number: 23-1951 (WHITHAM, CURTIS & WHITHAM)</p>
<p>02/07/2000 DCDATES 00000142 09453811 01 FC: 81 40.00 UP</p>	
<p>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.</p> <p><u>C. Lamont Whitham</u> <u>January 18, 2000</u> Name of Person Signing Signature Date</p> <p>Total number of pages including cover sheet: <u>3</u></p>	

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS

Toshitaka OGAWA and Toshio HIKI

NAME AND ADDRESS
OF ASSIGNOR(S)

Hitachinaka-shi, Ibaraki-ken, Japan

(HEREINAFTER REFERRED TO AS ASSIGNOR), have
invented and own a certain invention
entitled:

TITLE OF INVENTION:

RECORDING DEVICE INCLUDING BUFFER MECHANISM FOR
TRANSPORTING RECORDING MEDIUM IN FORWARD AND
REVERSE DIRECTIONS

for which application for Letters Patent of
the United States has been executed on even
date herewith,

WHEREAS

FULL NAME AND ADDRESS
OF ASSIGNEE

HITACHI KOKI CO., LTD.
15-1, Konan 2-chome, Minato-ku, Tokyo 108-6020 Japan

(hereinafter referred to as ASSIGNEE), is
desirous of acquiring the entire interest
in, to and under said invention and the
United States Letters Patent to be obtained
therefor:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:
Be it known that in consideration of the
payment of ASSIGNEE to ASSIGNOR of the sum
of One Dollar (\$1.00), the receipt of which
is hereby acknowledged, and for other good
and valuable consideration, ASSIGNOR hereby
sells, assigns and transfers to ASSIGNEE the

(Assignment of Application for Patent -- page 1 of 2)

PATENT
REEL: 010528 FRAME: 0556

full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNIG

Signed this 3 day of
December, 1999.

Toshitaka Ogawa SIGNATURE
Toshitaka OGAWA

Toshio Hiki SIGNATURE
Toshio HIKI

SIGNATURE

SIGNATURE