

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Yuichi KOMANO</td><td>03/14/2008</td></tr><tr><td>Hideo SHIMIZU</td><td>03/14/2008</td></tr><tr><td>Koichi FUJISAKI</td><td>03/14/2008</td></tr><tr><td>Hideyuki MIYAKE</td><td>03/14/2008</td></tr><tr><td>Atsushi SHIMBO</td><td>03/17/2008</td></tr></tbody></table>	Name	Execution Date	Yuichi KOMANO	03/14/2008	Hideo SHIMIZU	03/14/2008	Koichi FUJISAKI	03/14/2008	Hideyuki MIYAKE	03/14/2008	Atsushi SHIMBO	03/17/2008	
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<table border="1"><tr><td>Name:</td><td>KABUSHIKI KAISHA TOSHIBA</td></tr><tr><td>Street Address:</td><td>1-1-1, Shibaura, Minato-ku</td></tr><tr><td>City:</td><td>Tokyo</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr></table>	Name:	KABUSHIKI KAISHA TOSHIBA	Street Address:	1-1-1, Shibaura, Minato-ku	City:	Tokyo	State/Country:	JAPAN					
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PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12053143</td></tr></tbody></table>	Property Type	Number	Application Number:	12053143									
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Application Number:	12053143												
CORRESPONDENCE DATA													
Fax Number: (703)413-2220 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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Total Attachments: 2 source=324124USassignment#page1.tif													

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PATENT
REEL: 020685 FRAME: 0054

WHEREAS, I (WE) Yuichi KOMANO, Hideo SHIMIZU and Koichi FUJISAKI all of Kanagawa, Japan
Hideyuki MIYAKE and Atsushi SHIMBO both of Tokyo, Japan

have invented certain new and useful improvements in: NON-LINEAR DATA CONVERTER, ENCODER AND DECODER

WHEREAS, KABUSHIKI KAISHA TOSHIBA

(hereinafter referred to as "ASSIGNEE") having a place of business at: 1-1-1, Shibaura, Minato-ku, Tokyo, Japan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in 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 and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: <u>Mar 14, 2008</u>	<u><i>Yuchi Komano</i></u> (Signature of Inventor)
Date: <u>Mar 14, 2008</u>	<u><i>Hideo Shimizu</i></u> (Signature of Inventor)
Date: <u>Mar 14, 2008</u>	<u><i>Hoichi Fujisaki</i></u> (Signature of Inventor)
Date: <u>Mar 14, 2008</u>	<u><i>Hideyuki Miyake</i></u> (Signature of Inventor)
Date: <u>Mar 17, 2008</u>	<u><i>Akashi Shinko</i></u> (Signature of Inventor)
Date: _____	_____ (Signature of Inventor)
Date: _____	_____ (Signature of Inventor)
Date: _____	_____ (Signature of Inventor)
Date: _____	_____ (Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
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1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314