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102	608704 Attorney's Docket No. <u>009683-486</u>	
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Takashi OKUDA	1	
Toshio KUMAMOTO Yasuo MORIMOTO	Name: Renesas Technology Corp.	
Additional name(s) of conveying party(ies) attached? [] Yes [X] No	Address: 4-1, Marunouchi 2-chome	
3. Nature of conveyance:	Chiyoda-ku, Tokyo 100-6334	
[X] Assignment [] Merger	Japan	
[] Security Agreement [] Change of Name		
Other:	Additional accorda 0 address (as) affected 0 (1.1) (as FX) No.	
Execution Date: October 24, 2003	Additional name(s) & address(es) attached? [] Yes [X] No	
Application number(s) or patent number(s):	1	
	on, the execution date of the application is: October 24, 2003	
	B. Patent No.(s)	
A. Patent Application No.(s) 10 7/5 456		
Additional numbers attached? [] Yes [] No		
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One	
Name: Platon N. Mandros	7. Total fee (37 CFR § 3.41): \$40.00	
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ATTORNEY DOCKET NO. 009683-486

ASSIGNMENT

:	Application No Filed
insert Name(s)	WHEREAS, Takashi OKUDA, Toshio KUMAMOTO and
of Inventor(s)	Yasuo MORIMOTO
	· ·
	(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
Insert Title of Invention	MODULATOR PROVIDING ONLY QUANTIZATION ERROR COMPONENT TO
	$\Delta\Sigma$ modulator
	for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).
Insert Date of Signing of Application	October 24, 2003 ; and
Insert Name of Assignee	WHEREAS, Renesas Technology Corp.
Insert Address of Assignee	→ of 4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 JAPAN
	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
CHECK BOX IF APPROPRIATE	⇒ ∑ in any and all foreign countries.
	NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;
	and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

terms for which the same may be granted.

PATENT REEL: 014717 FRAME: 0022 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

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

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of BURNS, DOANE, SWECKER & MATHIS, L.L.P. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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

Date	October 24, 2003	Name of Inventor Takashi Okuda Takashi OKUDA
		Name of Inventor Toshio Kumamoto Toshio Kumamoto
Date	October 24, 2003	Name of Inventor Yasuo MORIMOTO
Date	· · ·	Name of Inventor
Date		Name of Inventor
Date	•	Name of Inventor
Date		Name of Inventor
Date	•	Name of Inventor
Date	,	Name of Inventor

RECORDED: 11/19/2003

PATENT REEL: 014717 FRAME: 0023