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ASSIGNMENT

Atty. Docket No. 9432-000138

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

LINEAR DISCRIMINANT BASED SOUND CLASS SIMILARITIES WITH UNIT VALUE NORMALIZATION

for which Assign	nor is a	about to make or has made United States or International application for		
(a) [2		executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);		
(b)		executed on,; or		
(c)] ·	filed on, and assigned Serial No or PCT International Application No, and		
	-	atsushita Electric Industrial Co., Ltd., hereinafter referred to as Assignee, g an interest therein:		
whereof is here unto Assignee a United States of laws of the Unite as described in therefor to be he Patent are gran	eby ac and its of Amer ted Sta on the a neld an onted ar	FORE, for good and valuable consideration, the receipt and adequacy knowledged, Assignor by these presents does sell, assign and transfer successors in interest, the full and exclusive right, title and interest in the rica and all foreign countries, including the right to claim priority under the tes, the Paris Convention, and any foreign countries, to the said invention aforesaid application, said application for patent and all Letters Patent d enjoyed by Assignee to the full end of the term for which said Letters and any extensions thereof as fully and entirely as the same would have that this assignment and sale not been made;		
Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letter patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, for the benefit of Assignee without further or other compensation than that above set forth;				
Assigno been or will be	r herek entere	by covenants that no assignment, sale or agreement or encumbrance has d into which would conflict with this Assignment; and		
Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.				
Assigno (Application No number of said	or here	by authorizes and requests my attorney to insert here in parentheses, filed) the filing date and application ation when known.		

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ASSIGNMENT

Robert C. Bonnem	July 6, 2001
Robert C. Boman	Date /
Philippe Movin	July 6, 2001
Philippe R. Morin	Date
Ted H. applebaum	July 6, 2001
Ted H. Applebaum	Date