PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kazuhisa YAMAUCHI	08/06/2009
Masatoshi NAKAYAMA	08/18/2009
Yasuhiro ONAKA	08/21/2009
Tomokazu HAMADA	08/21/2009
Satoru ISHIZAKA	08/17/2009

RECEIVING PARTY DATA

Name:	MITSUBISHI ELECTRIC CORPORATION
Street Address:	7-3, Marunouchi 2-chome, Chiyoda-ku
City:	Tokyo
State/Country:	Japan
Postal Code:	100-8310

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12531553

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	Tirhas Gessesse

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Total Attachments: 1

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PATENT REEL: 023241 FRAME: 0421

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good consideration, the receipt of which is hereby acknowledged, the undersigned of the sum of One Dollar (\$1.00), and other good consideration, the receipt of which is hereby acknowledged, the undersigned of the sum of One Dollar (\$1.00), and other good consideration, the receipt of which is hereby acknowledged, the undersigned of the sum of One Dollar (\$1.00), and other good consideration, the receipt of which is hereby acknowledged, the undersigned of the sum of One Dollar (\$1.00), and other good consideration, the receipt of which is hereby acknowledged, the undersigned of the sum of One Dollar (\$1.00), and other good consideration, the receipt of which is hereby acknowledged, the undersigned of the sum of One Dollar (\$1.00), and other good consideration is the sum of One D	ned,			
Kazuhisa YAMAUCHI, Masatoshi NAKAYAMA, Yasuhiro ONAKA, Tomokazu HAMADA and Satoru ISHIZAKA				
hereby sells, assigns and transfers to				
MITSUBISHI ELECTRIC CORPORATION	00.0010			
of 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1	.00-8310 JAPAN			
(hereinafter called the Assignee), its successors and assigns, the entire rigin and to:	ght, title, and interest			
(i) the application for United States Letters Patent entitled DIRECTORY	CTIONAL			
which was executed by the undersigned on				
or was filed on April 11, 2008 and accorded				
PCT/JP2008/057164 (hereinafter call	ed the Application);			
(ii) any and all inventions and improvements which are described in t	he Application;			
(iii) any and all United States Letters Patents which may be granted o (hereinafter called Patent);	n the Application			
(iv) any and all divisions, continuations, substitutes, reexaminations, of the Application or Patent; and	reissues, or extensions			
(v) all benefits under the International Convention for the Protection	of Industrial Property.			
Said Assignee of said patent application and the attorneys appoint patent application are authorized to insert in this instrument the filing date of said application.				
The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.				
Further, it is agreed that, when requested, without charge to but a Assignee, the undersigned will execute all divisional, continuing, substit applications; execute all additional assignments and other writings, inclupapers; and provide all reasonable assistance requested by the Assignee appropriate patent protection.	ute, or reissue patent uting reexamination			
INVENTOR(S):	DATE			
(Kazuhisa YAMAUCHI) Kazuhisu Yamauchi	August 6th 200			
(Masatoshi NAKAYAMA) Masatoshi Molecum on	August 18-1, 200			
(Yasuhiro ONAKA) Yasuhiro Onaka	August 21 th . 2009			
(Tomokazu HAMADA) Tomokaza Hamada	August 2/76 200			
(Satoru ISHIZAKA) Satoru Ishizaka	August 17th, 2009			

PATENT
RECORDED: 09/16/2009 REEL: 023241 FRAME: 0422