

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hiroshi MUTOH	02/19/2009
RECEIVING PARTY DATA	
Name:	Fujitsu Limited
Street Address:	1-1, Kamukodanaka 4-chome, Nakahara-ku
City:	Kawasaki-shi, Kanagawa
State/Country:	JAPAN
Postal Code:	211-8588
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12821036
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Total Attachments: 4 source=KATSDC-080AUS_Assignment#page1.tif source=KATSDC-080AUS_Assignment#page2.tif source=KATSDC-080AUS_Assignment#page3.tif source=KATSDC-080AUS_Assignment#page4.tif	

OP \$40.00 12821036

DOCKET NO: KATSDC.080AUS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Hiroshi MUTOH

Serial No: 12/821,036

Group Art Unit:

Filed: June 22, 2010

Examiner: To be assigned

For: MAGNETIC RECORDING APPARATUS AND MAGNETIC RECORDING
MEDIUM

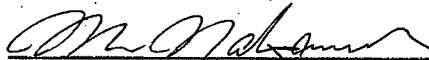
STATEMENT OF FACTS IN SUPPORT OF ASSIGNMENT DOCUMENTS

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

1. The undersigned Michio NAKAMURA is General Manager, Patent Division, Intellectual Property Unit, FUJITSU LIMITED.
2. I, Michio NAKAMURA, declare that Mr. Hiroshi MUTOH made Japanese version of Application Request Form.

Signature



Name: Michio NAKAMURA
Title: General Manager,
Patent Division,
Intellectual Property Unit
FUJITSU LIMITED
1-1, Kamukodanaka 4-chome
Nakahara-ku, Kawasaki-shi
Kanagawa 211-8588
Japan

Oct. 14, 2010

Date

特許部長殿

特許 出願依頼書

受付番号(特許部で記入)

09-51375

平成 21 年 2 月 19 日

重要度 (A~D)	処理区 (1~4)	依頼元職制コード	依頼元発信No. (10文字以内の英数字で記入)
A	1		
出願期限(平成)	クレーム数	共同K	関係会社(英略称)
年 月 日	20		
理由	他社共同出願		研究製番(例Q0091812ZZ)
(特殊事情ありの場合記入) 1:製品出荷(サンプル出荷等) 2:外部発表 3:国内優先 4:その他(事情を備考欄に記入)			
標準化の可能性↓(複数の団体が該当する場合、残りを右欄↓に記入)	基盤テーマ(対象外は)		部門管理情報(25文字以内の英数字で記入)
標準化に関係しない又は不明			
公知例調査	【調査範囲、結果のメモ】※7/1、自力調査の場合、検索履歴、調査報告書、公報等添付検索の結果、当該アイデアに該当するものが無く、出願に問題ないと考えます。	【先行技術文献情報の有無】	【有(下記1から3にて通知方法を選択)】
☐ テクノ調査	TRL管理番号	☐ 1. 出願依頼書に添付	☐ 2. 明細書原稿に記載
☒ 自力調査	1: Pasnet 2: 社外DB	☐ 2. 明細書原稿に記載	☐ 3. 下記に記載
☐ 調査なし	3: インターネット 4: 文献	※2, 3の場合、公報以外の文献ハードコピー(論文、刊行物、URL等)	
		☐ 添付する	☐ 別送する
発明の名称 (日本語40文字以内)	磁気記録方式、及びそれを使用した装置		
発明内容の要約 (日本語100文字以内)	Shingle write/TDMR方式の磁気記録方式であって、複数本あるデータ記録列のうち、少なくとも1つのデータ記録列に、先行領域にあるプリアンブルにて抽出された周波数情報と位相情報を保持したクロック信号が書かれることを特徴とした磁気記録方式、及びそれを使用した装置。		
出願人	☒ 富士通 ☐ ドコモ ☐ 日立 ☐ 東芝 ☐ ソニー ☐ 日本電気 ☐ 松下電器 ☐ FTFC ☐ FMD ☐ FPE ☐ FTEN ☐ FFC ☐ PFU ☐ FCL		
その他	代表者	住所	手続会社名
契約等関係	☒ 関係なし ☐ 関係あり ☐ 共同研究・開発 ☐ 委託研究・開発 ☐ 試作依頼 ☐ 業務請負 ☐ 物品取引 ☐ 派遣契約 ☐ その他 ☐ 契約書等の題名 ☐ 相手方 ☐ 契約日 平成 〇 〇 年 〇 月 〇 日		
	☒ 紙書類送付あり ☐ 発明者確認書 ☐ 公知例調査結果 ☐ 図面(2部) ☐ 先行技術文献 ☐ その他		

譲渡証書

富士通株式会社

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上記の発明について国内外で特許をうける権利の全部を
貴社の規定に則り貴社に譲渡したことに相違ありません。

発明者総数は1名です。

(1桁の整数比で記入)

発明者 (筆頭者を1欄に記入)	英文表記		確認番号	従業員番号	持分 [比率]	E-mail アドレス(社内のみ)		TEL(内線)
	氏名	確認日				所属部署(室)名 (社外者は所属会社、個人は現住所)	関係会社	
1	Hiroshi Mutoh 武藤 弘	HM090219 2009.02.19			1	mutoh@ipc.fujitsu.com SP本・磁気ディスク事業部) LSI開発部		
2								
3								
4								
5								

注 (1) 発明者確認番号/確認日は、それぞれの発明者が発明を譲渡したことを確認した後に記入して下さい。
(2) 部長印の代わりに部長確認番号を記入して下さい。

外 Tel: 外線は筆頭者のものを記入
Fax: 外線は筆頭者のものを記入

依頼元	SP本) 磁気) LSI開発 部	課室	川崎メール番号
部長課	部長担当者	特許推進幹事	
20090220	20090219	20090219	20090219
			部長確認番号
			0219b

特許部	特許部長部	部長課	部長

出願依頼書・発明評価票の太枠内の必要事項を記入し、Team Mail(又はE-Mail)で送付して下さい。
注 この欄は、発明者が知っている先行技術文献情報を記入して下さい。尚、日本及び米国外では先行技術文献の開示が義務付けられており、米国外ではこれを怠ると特許を無効とされる恐れがあります。

Patent Application Request Form

Receipt number (to be entered at Patent Department) 09 - 51375		Importance level (A to D) A	Process classification (1 to 4) 1	Requestor organization code 1000	Requestor dispatch No. (Enter 10 or less alphanumeric characters.) 0000181222
Application deadline (in Heisei) year 19 month 05 day 15 (Enter under special circumstances, 1)		Number of claims (1 to 4) 1	Co-applicant K 1	Related company (Abbreviated name in alphabet) SP	Research reference No. (e.g., Q009181222) 0000181222
Reason (Enter under special circumstances, 1) 1		Subject of emphasis (Excluded ...)		Division management information (Enter 26 or less alphanumeric characters.)	
Standardization possibility (If more than one organization is applicable, enter the rest in the right box, 4)		Unrelated to standardization or unknown		Notes Please enter prior art document information known to the inventor(s) in this box. Disclosure of prior art is made obligatory in Japan and the United States, and a patent may be invalidated in the United States if this is neglected.	
Known art search (Tick appropriate item below and fill in right box.) ☐ Search by Techno ☒ Own search ☐ No search		TRL management number 1 1: Patent, 2: External DB, 3: Internet search, 4: Publications		[Notes on search coverage, search results] * For search by Techno or own search, attach search history, search report, gazettes, etc. As a result of the search, no technology corresponding to this idea has been found, and thus there considered to be no problem in filing the application.	
Title of invention (40 or less Japanese characters) MAGNETIC RECORDING APPARATUS AND MAGNETIC RECORDING MEDIUM		[Presence or absence of prior art document information] ☒ Present (Select informing manner from 1 to 3 below.), ☐ None ☐ 1. Attached to Application Filing Request, ☒ 2. Described in specification draft, ☐ 3. Described below * For 2 or 3, hard copies of document(s) other than gazettes (article, publication, URL, etc.) are ☐ Attached. ☐ sent separately.			
Summary of invention (100 or less Japanese characters) A shingle write/TDMR magnetic recording method in which a clock signal carrying frequency information and phase information extracted in a preamble located in a leading portion is written in at least one of a plurality of data recording streams, and an apparatus using the method.		Applicant(s) ☒ Fujitsu ☐ DoCoMo ☐ Hitachi ☐ Toshiba ☐ Sony ☐ NEC ☐ Matsushita Electric ☐ FTEC ☐ FMD ☐ FPE ☐ FTEN ☐ FFC ☐ PFU ☐ FCL Other applicant(s) Representative Address			
Relationship under contract, etc. ☒ No relationship ☐ With relationship ☐ Joint research and development, ☐ Contract research and development, ☐ Trial production request, ☐ Business contract, ☐ Article transaction, ☐ Worker dispatch contract, ☐ Others Title of contract, etc. Contract date ☐ Heisei ☐ Showa ☐ year 19 month 05 day 15		Remarks ☐ Hard copies are sent. ☐ Confirmation of inventor(s), ☐ Known art search result(s), ☐ Drawing(s) (2 copies), ☐ Prior art document(s), ☐ Others			
ASSIGNMENT TO FUJITSU LIMITED		To IPC		Domestic priority (overseas) Prior application(s) Reference number Filing date	
I hereby declare that all the rights to obtain a patent for the aforementioned invention in Japan or abroad are assigned to you according to the company regulations. Total number of inventors is one. (enter single-digit integer ratio)					

Inventor(s) (Enter first inventor in first row)	Name in alphabet	Confirmation number	Employee number	Share (Ratio)	Email address (for internal use only)	TEL (Extension)
	Name	Confirmation date			Name of department, division (office) (Company name for outsider, and residence address for individual)	Affiliate(s)
1	Hiroshi Mutoh				SP Headquarters/Magnetic Disc Department LSI Development Division	
2						
3						
4						
5						

- Notes: (1) Please enter the inventor confirmation number/confirmation date after confirming that each inventor has assigned the invention.
(2) Please enter the manager confirmation number in place of the manager seal.

Requestor				
SP Headquarters/Magnetic Disc Development Department Division/Office				
Manager	Chief	Handler	Patent Promotion Organizer	Manager confirmation number
20090220	20090219	20090219	20090219	0219b

External number	Tel: 02672	(Enter abbreviated name in alphabet) Enter external number of the first inventor
	Fax: 02672	

Patent Department		
Patent General Manager	Manager	Chief

CERTIFICATE OF TRANSLATION

I, Anna NAKADEGAWA,

of c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,
Kanagawa 211-8588 Japan,

state that the attached Application Request Form is a true and complete translation to
the best of my knowledge.

Signature of Translator: 

Anna NAKADEGAWA

Date: Oct. 14, 2010