

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the 1st inventor's name, 2nd assignee's name and the execution dates of all french inventors, previously recorded on Reel 019256 Frame 0585. Assignor(s) hereby confirms the Assignment.

CONVEYING PARTY DATA

Name	Execution Date
Kenchi Ito	01/25/2007
Hiromasa Takahashi	01/29/2007
Takayuki Kawahara	01/30/2007
Riichiro Takemura	01/30/2007
Thibaut Devolder	04/14/2008
Joo-Von Kim	04/14/2008
Claude Chappert	04/16/2008
Paul Crozat	04/14/2008

RECEIVING PARTY DATA

Name:	Hitachi, Ltd.
Street Address:	6-6, Marunouchi 1-chome
Internal Address:	Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN

Name:	Centre National de la Recherche Scientifique
Street Address:	3, rue Michel-Ange
City:	Paris Cedex 16
State/Country:	FRANCE
Postal Code:	F-75794

Name:	Universite Paris Sud XI
Street Address:	15, rue Georges Clemenceau
City:	Orsay Cedex
State/Country:	FRANCE
Postal Code:	F-91405

OP \$40.00 11638379

501135198

PATENT
REEL: 024165 FRAME: 0328

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11638379

CORRESPONDENCE DATA

Fax Number: (703)312-6666

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7033126600

Email: rperez@antonelli.com

Correspondent Name: Antonelli, Terry, Stout & Kraus, LLP

Address Line 1: 1300 N. 17th Street

Address Line 2: Suite 1800

Address Line 4: Arlington, VIRGINIA 22209

ATTORNEY DOCKET NUMBER:	1076.46917X00
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NAME OF SUBMITTER:	Gregory E. Montone
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Total Attachments: 11

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PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

05/07/2007
500271732

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kenichi ITO	01/25/2007
Hiromasa TAKAHASHI	01/29/2007
Takayuki KAWAHARA	01/30/2007
Riichiro TAKEMURA	01/30/2007
Paul CROZAT	01/25/2007
Thibault DEVOLDER	03/03/2007
Joo-von KIM	03/12/2007
Claude CHAPPERT	03/12/2007

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Street Address:	6-6, Marunouchi 1-chome
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City:	Tokyo
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Name:	Universite Paris Sud XI
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Internal Address:	Orsay
City:	CEDEX
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Name:	Centre National de la Recherche Scientifique
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Postal Code:	F75794

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PROPERTY NUMBERS Total: 1

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Application Number:	11638379

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Phone: 7033126600

Email: ayoung@antonelli.com

Correspondent Name: Antonelli, Terry, Stout & Kraus

Address Line 1: 1300 N. Seventeenth Street

Address Line 2: Suite 1800

Address Line 4: Arlington, VIRGINIA 22209

ATTORNEY DOCKET NUMBER:	1076.46917X00
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NAME OF SUBMITTER:	Gregory E. Montone
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Total Attachments: 4

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ASSIGNMENT	ATTY. DOCKET NO. 1076.46917X00
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WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

MAGNETIC MEMORY DEVICE

for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.			
for which U.S. Application Serial No.		for Letters Patent was filed in the U.S. Patent and Trademark Office on	
11/638,379		14 December 2006	
for which an International Application was filed on		as	designating the United States.

AND WHEREAS

Hitachi, Ltd., 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

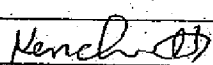
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Antonelli, Terry, Stout, Kraus, LLP 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 United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
	<u>Kenchi ITO</u>		<u>25/01/2007</u>
202	FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	<u>Hiromasa TAKAHASHI</u>		
203	FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	<u>Takayuki KAWAHARA</u>		
204	FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	<u>Riichiro TAKEMURA</u>		
205	FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
207	FULL NAME OF SEVENTH INVENTOR	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH INVENTOR	INVENTOR'S SIGNATURE	DATE

ASSIGNMENT		ATTY. DOCKET NO. 1076.46917X00
WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to		
MAGNETIC MEMORY DEVICE		
for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.		
for which U.S. Application Serial No.		for Letters Patent was filed in the U.S. Patent and Trademark Office on
11/638,379		14 December 2006
for which an International Application was filed on		as , designating the United States.
AND WHEREAS	Hitachi, Ltd., 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan	
hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.		
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.		
AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.		
AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.		
The undersigned hereby grant(s) the law firm of Antonelli, Terry, Stout, Kraus, LLP 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 United States Patent and Trademark Office for recordation of this document.		
IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.		
201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE
	Kenchi ITO	
202	FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE
	Hiromasa TAKAHASHI	Hiromasa Takahashi
203	FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE
	Takayuki KAWAHARA	Takayuki Kawahara
204	FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE
	Riichiro TAKEMURA	Riichiro Takemura
205	FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE
206	FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE
207	FULL NAME OF SEVENTH INVENTOR	INVENTOR'S SIGNATURE
208	FULL NAME OF EIGHTH INVENTOR	INVENTOR'S SIGNATURE

ASSIGNMENT

ATTY. DOCKET NO.
1076.46917X00

To the extent that the below named inventors, hereinafter referred to as the ASSIGNORS, have any rights in the invention invented by them relating to:

MAGNETIC MEMORY DEVICE

for which an application for Letters Patent is to be filed in the United States Patent and Trademark Office was executed on even date.

for which U.S. Application Serial No.

for Letters Patent was filed in the U.S. Patent and Trademark Office on

11/638,379

14 December 2006

for which an International Application was filed on

as

designating the United States.

AND WHEREAS

1.- Centre National de la Recherche Scientifique

3, rue Michel-Ange, F-75794 Paris Cedex 16, France

2.- Universite Paris Sud XI

15, rue Georges Clemenceau, F-91405 Orsay Cedex, France

hereinafter referred to as the ASSIGNEES, are desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

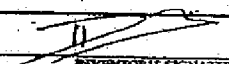


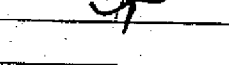
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNORS hereby assign, sell, and transfer to ASSIGNEES, their assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent, which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEES, their assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and extensions thereof, with all the rights, power, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEES and their assigns and legal representatives, in as ample and beneficial manner to all intents and purposes as the ASSIGNORS might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNORS hereby agree to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEES, their assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patent thereon.

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The undersigned hereby grant(s) the law firm of Antonicelli, Toney, Stout & Kraus, LLP 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 United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNORS,

201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
	Thibaut DEVOLDER		April 16 th , 2008
202	FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	Joo-Von KIM		14 April 2008
203	FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	Claude CHAPPERT		14 April 2008
204	FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	Paul CROZAT		14 April 2008
205	FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
207	FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT

RECORDED: 03/31/2010

REEL: 024165 FRAME: 0334