

PATENT ASSIGNMENT

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SMART Modular Technologies (MA), Inc., (formerly known as Centennial Technologies, Inc.)	08/25/2004

RECEIVING PARTY DATA

Name:	SMART Modular Technologies, Inc.
Street Address:	4211 Starboard Drive
City:	Fremont
State/Country:	CALIFORNIA
Postal Code:	94538

PROPERTY NUMBERS Total: 16

Property Type	Number
Patent Number:	6434660
Patent Number:	5706239
Patent Number:	6443648
Application Number:	60131793
Application Number:	60134883
PCT Number:	US0011394
Application Number:	09571771
Application Number:	60148013
Application Number:	60134727
Application Number:	60130343
Application Number:	60204686
Application Number:	60131594
Application Number:	09334754
PCT Number:	US0011754

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500007381

REEL: 015147 FRAME: 0609

CH \$640.00 6434660

Application Number:	09208890
Application Number:	09577283

CORRESPONDENCE DATA

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Chun M. Ng

Total Attachments: 3

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**ASSIGNMENT OF LETTERS PATENT
AND APPLICATIONS FOR LETTERS PATENT**

THIS ASSIGNMENT OF LETTERS PATENT AND APPLICATIONS FOR LETTERS PATENT (this "**Assignment**") is made this 25th day of August, 2004, by SMART Modular Technologies (MA), Inc., (formerly known as Centennial Technologies, Inc.), a Delaware corporation, ("**Assignor**").

W I T N E S S E T H :

WHEREAS, Assignor owns or controls its right, title and interest in, to and under the national and multinational statutory invention registrations, patents and patent applications listed in Schedule A (including all reissues, divisions, continuations, extensions and reexaminations thereof) registered or applied for in the United States and all other nations throughout the world; all improvements to the inventions disclosed in each such registration, patent or patent application; all rights in all of the foregoing provided by treaties, conventions and common law and all rights to sue or recover and retain damages and costs and attorneys' fees for past, present and future infringement or misappropriation of any of the foregoing (collectively, the "**Patents**");

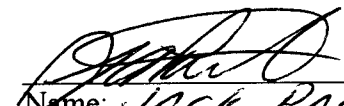
WHEREAS, SMART Modular Technologies, Inc., a California corporation ("**Assignee**"), is desirous of acquiring the entire worldwide right, title and interest in, to and under the Patents.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, with the parties intending to be legally bound, Assignor does hereby sell, assign, transfer, set over and convey unto Assignee, as of the date first above written, all of Assignor's right, title and interest in, to and under the Patents.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed.

SMART Modular Technologies (MA), Inc.

By: _____


Name: JACK PACHECO
Title: VP/CFD

SCHEDULE AU.S. Granted Patents:

Patent	Title	Assignee prior to this assignment	Inventor
6,434,660	Emulating one tape protocol of flash memory to a different type protocol of flash memory	Centennial Technologies, Inc.	Grady Lambert, et al
5,706,239	Rechargeable SRAM/flash PCMCIA card	Centennial Technologies, Inc.	Wieslaw Brys
6,443,648	PCMCIA compatible memory card with serial communication interface	SMART Modular Technologies (MA), Inc.	Jacques Assour, et al

U.S. Patent Applications:

<u>Serial No.</u>	<u>Title</u>	<u>Filed</u>
60/131,793	Combination ATA/Linear Flash Memory Device	4/30/99
60/134,883	Combination ATA/Linear Flash Memory Device	5/19/99
PCT/US00/11394	Combination ATA/Linear Flash Memory Device	4/28/00
09/571,771	Compact Audio Player/Recorder	5/16/00
60/148,013	Compact Audio Player/Recorder	8/10/99
60/134,727	Compact Audio Recorder/Player	5/18/99
60/130,343	Compact Audio Recorder/Player	4/21/99
60/204,686	Internet Based Upgrade of Firmware	5/17/00
60/131,594	Linear Flash Memory Compatible with CompactFlash Mechanical Interface	4/29/99
09/334,754	Linear Flash Memory Compatible with CompactFlash Mechanical Interface	6/17/99

<u>Serial No.</u>	<u>Title</u>	<u>Filed</u>
PCT/US00/11754	Linear Flash Memory Compatible with CompactFlash Mechanical Interface	4/28/00
09/208,890	PCMCIA Compatible Memory Card with Serial Communication Interface	12/10/98
09/577,283	Linear Flash Translator	5/23/00
N/A	Internet Based Upgrade of Firmware	
N/A	Linear Flash Translator	

Foreign Patent:

<u>Serial No.</u>	<u>Title</u>	<u>Filed</u>	<u>Country</u>
WO 00/67132	Combination ATA/Linear Flash Memory Device		WIPO

Foreign Patent Applications:

<u>Serial No.</u>	<u>Title</u>	<u>Filed</u>	<u>Country</u>
WO 00/67128	Linear Flash Memory Compatible with CompactFlash Mechanical Interface		WIPO
AU163172A5	The Method of Emulating Different Protocol of Flash Memory	5/16/01	Australia
AU163140A5	Fee Management for Programming of Electronic Devices	5/15/01	Australia
AU0161616A5	Programming a Memory Based on Information Obtained from a Remote Location	5/15/01	Australia
EP1210666A1	Linear Flash Memory Compatible with Compactflash Mechanical Interface	4/28/00	EPO
WO0190900A1	The Method of Emulating Different Protocol of Flash Memory	5/16/01	WIPO
WO0188817A1	Fee Management for Programming of Electronic Devices	5/15/01	WIPO
WO0188732A1	Programming a Memory Based on Information Obtained from a Remote Location	5/15/01	WIPO

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RECORDED: 09/20/2004

REEL: 015147 FRAME: 0613