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PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OLIVIER BICHLER	11/18/2013
CHRISTIAN GAMRAT	11/18/2013
DAMIEN QUERLIOZ	11/20/2013

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14126397

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PATENT

REEL: 031783 FRAME: 0141

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Date:	12/13/2013
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PATENT REEL: 031783 FRAME: 0142 BD12703-067534 US PHA/MGU

ASSIGNMENT

I, Olivier BICHLER, a citizen of France, residing at 99, avenue de Paris,

91300 MASSY, France; and

I, Christian GAMRAT a citizen of France, residing at Résidence les

Pampres, Avenue de Champagne, 91940 LES ULIS - France; and

I, Damien QUERLIOZ, a citizen of France, residing at 166 avenue du

Général Leclerc, 92330 SCEAUX - France,

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR")

for good and valuable consideration, the sufficiency of which and receipt of which are

hereby acknowledged, paid to ASSIGNOR by

COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

a Corporation organized under the laws of FRANCE, located at 25, rue Leblanc,

Bâtiment "Le Ponant D", 75015 PARIS- FRANCE (hereinafter "ASSIGNEE"), do

hereby sell and assign to said ASSIGNEE, its successors and assigns, the entire

indicated right, title, and interest, in and to my Invention entitled:

METHOD FOR NON-SUPERVISED LEARNING IN AN ARTIFICIAL NEURAL NETWORK BASED ON

MEMRISTIVE NANODEVICES, AND ARTIFICIAL NEURAL NETWORK IMPLEMENTING SAID

METHOD

invented by me/us and described in French patent application n° 1155854, filed on

June 30, 2011; including any United States patent application claiming priority thereto

and bearing the above title as filed by me/us concurrently herewith; I/we hereby

authorize the law Firm of Baker & Hostetler LLP, to insert on the designated lines

below, the filing date and application number of any said United States application

when known; including:

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the application filed on June 27, 2012 as PCT Application Number PCT/EP2012/062420

or/and the application filed on

, United States Application Number :

14126397

and all patents, divisions, reissues, continuations, continuations-in-part and any extensions thereof and rights of priority therein, including the right to sue for past infringement and any such recovery, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made, including all rights of ASSIGNOR to recover for past infringement thereof;

And for the consideration aforesaid, I/we hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I/we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense and that I will not execute any writing or do any act whatsoever conflicting with these presents,

PATENT REEL: 031783 FRAME: 0144 And I/we hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I/we declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I/we have signed this document as my/our own free act and that all of the foregoing is true and correct.

Dated: 41/16/2013

Olivier BICHLER, Inventor

Dated: 11/17/2013

Christian GAMRAT, Inventor

Dated: 11/20/2013

Damien QUERLIOZ, Inventor

Damian Quarteg