PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NICOLAS BOULANT	08/29/2018
VINCENT GRAS	08/29/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15754273

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DATE SIGNED:	08/29/2018

Total Attachments: 2

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PATENT 505070642 REEL: 046747 FRAME: 0375

ASSIGNMENT

- I, Nicolas BOULANT, a citizen of France residing at France
- I, Vincent GRAS, a citizen of France residing at France

(hereinafter "ASSIGNOR") for good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

1/ COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

Corporations organized under the laws of France located at 25, rue Leblanc
Bâtiment "Le Ponant D"
75015 PARIS

(hereinafter "ASSIGNEES"), do hereby sell and assign to said ASSIGNEES, its successors and assigns, the entire indicated right, title, and interest, in and to my Invention entitled:

A METHOD OF DESIGNING PULSE SEQUENCES FOR PARALLELTRANSMISSION MAGNETIC RESONANCE IMAGING, AND A METHOD OF PERFORMING MAGNETIC RESONANCE IMAGING USING SUCH SEQUENCES

invented by me/us and described in European patent application no. **15306569.3**, filed **October 6, 2015**; including any United States patent application claiming priority thereto and bearing the above title as filed by me/us; I/we hereby authorize and request the law firms of Marks and Clerk France and <u>BAKER & HOSTETLER</u>; to insert on the designated lines below, the filing date and application number of said United States application when known, to add or correct information stated in the assignment which identifies the U.S., PCT, and/or priority patent applications covering the "Invention" being assigned.

which was filed on <u>September 28, 2016</u> as PCT Application Number PCT/EP2016/073138 or/and United States Application Number **15/754,273**;

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;

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REEL: 046747 FRAME: 0376

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,

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: <u>A 44/4/6 2.9 , 2.0</u> (§

Nicolas BOULANT, Inventor

Dated: August 29, 2018

Vincent GRAS. Inventor

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