502513279 09/27/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Alexander Summerer | 06/28/2013 |

RECEIVING PARTY DATA

| Name: | Giesecke & Devrient Gmbh |
|-----------------|--------------------------|
| Street Address: | Prinzregentenstrasse 159 |
| City: | Muenchen |
| State/Country: | GERMANY |
| Postal Code: | 81677 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14008420 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 19838.10 |
|-------------------------|---------------------|
| NAME OF SUBMITTER: | Justin J. Cassell |
| Signature: | /Justin J. Cassell/ |
| Date: | 09/27/2013 |

Total Attachments: 2

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PATENT REEL: 031302 FRAME: 0180 OF \$40.00 14008420

ASSIGNMENT

Title of Invention: METHOD FOR UPDATING A DATA CARRIER

This assignment is directed to:

The application for United States Letters Patent executed on even date herewith;

United States patent number granted on;

United States application or Patent Cooperative Treaty international application

WHEREAS, I (we), the below named inventor, hereinafter referred to as ASSIGNOR, is the or an owner of certain new and useful improvements in the above identified application (hereinafter referred to as the INVENTION).

WHEREAS, Giesecke & Devrient GmbH

number: PCT/EP2012/001397

filed on March 29, 2012

whose post office address is/are

Prinzregentenstraße 159, 81677 Muenchen, Germany

hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the INVENTION in the United States;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed

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within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR authorizes any individual authorized to act on behalf of Customer Number 22913 to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.

| LEGAL NAME OF INVENTOR/ASSIGNOR | | | | | | | |
|--|-------------------------|---|--|---------|-----------|--|--|
| Name: | Alexander SUMMERER | Mitterfeldrir 85586Poinç Address: Germany | | 6Poing | | | |
| Where Signed: | Haaish Hoeimay | | | 2 cm1.y | | | |
| Signature: | 1. San | | | Date: | 28.66-104 | | |
| | | | | | | | |
| LEGAL NAM | ME OF INVENTOR/ASSIGNOR | | | | | | |
| Name: | | | | | | | |
| Where Signed: | | Address: | | | | | |
| Signature: | | | | Date: | | | |
| See following page(s) for additional joint inventor(s)/accionor(s) | | | | | | | |

Docket No.: Assignment pre-AIA rev. 10JUN13

> PATENT REEL: 031302 FRAME: 0182