PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3129088

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------------------|----------------|
| CORNELIS PETRUS HENDRIKS | 10/27/2014 |
| SUSANNE MAAIKE VALSTER | 11/03/2014 |
| MARC MATYSEK | 10/02/2014 |
| SANDER THEODOOR PASTOOR | 10/28/2014 |
| ROLAND ALEXANDER VAN DE MOLENGRAAF | 10/28/2014 |
| NICOLAAS PETRUS WILLARD | 11/24/2014 |
| RICHARD JOHANNUS MARIA VAN DE VEN | 11/19/2014 |
| JOYCE VAN ZANTEN | 02/17/2014 |
| WILLEM POTZE | 06/12/2013 |
| SIMA ASVADI | 11/28/2014 |
| RUDOLF MARIA JOZEF VONCKEN | 10/13/2014 |
| JACOB ROGER HAARTSEN | 02/19/2014 |
| MAREIKE KLEE | 11/26/2014 |
| MATTHEW JOHN LAWRENSON | 10/10/2014 |
| JULIAN CHARLES NOLAN | 10/10/2014 |

RECEIVING PARTY DATA

| Name: | KONINKLIJKE PHILIPS N.V. |
|-----------------|--------------------------|
| Street Address: | HIGH TECH CAMPUS 5 |
| City: | EINDHOVEN |
| State/Country: | NETHERLANDS |
| Postal Code: | 5656 AE |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 14405063 | |

CORRESPONDENCE DATA

Fax Number: (914)332-0615

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 914-945-6000

Email: noemi.chapa@philips.com

PATENT

503082483 REEL: 034309 FRAME: 0603

Correspondent Name: PHILIPS INTELLECTUAL PROPERTY & STANDARD

Address Line 1: P.O. BOX 3001

Address Line 4: BRIARCLIFF MANOR, NEW YORK 10510

| ATTORNEY DOCKET NUMBER: | 2011P02145WOUS |
|-------------------------|----------------|
| NAME OF SUBMITTER: | NOEMI CHAPA |
| SIGNATURE: | /Noemi Chapa/ |
| DATE SIGNED: | 12/02/2014 |

Total Attachments: 28

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> PATENT REEL: 034309 FRAME: 0604

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| was filed on. 0 | 6 Jun 2013, having an Internation | onal Application No. PCT/IB2013/0546 | 48, |
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| I/We certify that I | we have the full right to convey | the above rights. | |
| 27.10-2014 | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Marc MATYSEK | , Assignor |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE MOLENGRAAF | , Assignor |

Nicolaas Petrus WILLARD

(print name here)

Date

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
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| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
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| Date | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
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| Date | (print name here) | Julian Charles NOLAN | , Assignor |
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Page 2 of 2

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| extent. Upon request at legal proceedings include | the expense of the Assign ding patent prosecution act convenient for securing at | te Assignee to enjoy the foregoing right, to ee, I/we agree to execute all papers, take tions and infringement actions, and do all and maintaining patents on the foregoing in | all rightful oaths, testify in all other such acts which may be |
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Page 1 of 2

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Page 2 of 2

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| I/We certify that I/we har | ve the full right to convey th | ie above rights. | |
| | (sign name here) | | |
| Date | | Cornelis Petrus HENDRIKS | , Assignor |
| Date 20/02/2014 | (print name here) | Susangé Maaike VALSTER | |
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| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |

Page 1 of 2

MOLENGRAAF

Roland Alexander VAN DE

Nicolaas Petrus WILLARD

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, Assignor

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
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| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
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| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s), hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N.V., having a place of business at High Tech Campus 5,5656 AE, Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application: is executed concurrently herewith was executed by me/us on was filed on., having a Serial No. was filed on. 06 Jun 2013, having an International Application No. PCT/IB2013/054648, and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, nonprovisionals divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications. I/We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assigns, and legal representatives. I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecution actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee. I/We certify that I/we have the full right to convey the above rights. (sign name here) Date Cornelis Petrus HENDRIKS (print name here) , Assignor Susanne Maaike VALSTER Date (print name here) , Assignor Date (print name here) , Assignor 20-10-2019 Sander Theodoor PASTOOR (print name here) , Assignor Date (print name here) Roland Alexander VAN DE , Assignor MOLENGRAAF

Page 1 of 2

(print name here)

Date

Nicolaas Petrus WILLARD

| Date | (print name bere) | Richard Johannus Maria VAN DE VEN | , Assignor |
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| and assign, and tr a place of busines | ansfer the entire and exclusive r is at High Tech Campus 5,5656 | we acknowledge receipt, I/we as a below ight, title, and interest in the following to AE, Eindhoven, the Netherlands, its sucvely "the Assignee") my/our invention for | o Koninklijke Philips N.V., having cessors, assigns, and legal |
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Nicolaas Petrus WILLARD

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| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

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| and assign, and tra a place of busines | ansfer the entire and exclusive ri is at High Tech Campus 5,5656 A | re acknowledge receipt, I/we as a below-night, title, and interest in the following to FAE, Eindhoven, the Netherlands, its succeeding "the Assignee") my/our invention for | Coninklijke Philips N.V., having ssors, assigns, and legal |
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| • | reto, and the entire and exclusive | e right, title, and interest in and to any and | all patents granted on these |
| applications. | | | |
| I/We authorize ar | nd request that the Patent Office | officials in the United States and in any ar | id all foreign countries to issue |
| any and all Letter | s Patent when granted, solely to | the Assignee(s), for its sole use, and that of | of its successors, assigns, and |
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| extent. Upon req legal proceedings | uest at the expense of the Assign including patent prosecution action, or convenient for securing a | ne Assignee to enjoy the foregoing right, t nee, I/we agree to execute all papers, take a tions and infringement actions, and do all and maintaining patents on the foregoing in | all rightful oaths, testify in all other such acts which may be |
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| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
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Page 1 of 2

MOLENGRAM

(print name here)

PATENT REEL: 034309 FRAME: 0615

, Assignor

Willand

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
|------|-------------------|--------------------------------------|------------|
| | (print name here) | Joyce VAN ZANTEN | , Assignor |
| Date | (print name here) | Willem POTZE | , Assignor |
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| Date | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
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| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

Date

| and assign, and to a place of busine | ransfer the entire and exclusive riss at High Tech Campus 5,5656 | re acknowledge receipt, I/we as a below-tight, title, and interest in the following to large the Reindhoven, the Netherlands, its succeively "the Assignee") my/our invention for | Koninklijke Philips N.V., having essors, assigns, and legal |
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| was executed was filed on. | | ving a Serial Noonal Application No. PCT/IB2013/8546 | |
| and all rights in a therewith, based provisionals divi | and to said application, and all of thereon, or claiming priority ther sions, continuations, continuation | ner United States, foreign and internations efrom including, but not limited to, any a as-in-part, re-examinations, reissues, and a right, title, and interest in and to any and | al patent applications associated nd all provisionals, non- extensions thereof, and the right to |
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| Date | (sign name here) (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
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Page 1 of 2

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Nicolaus Petrus WILLARD

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| Date V | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
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| ,, | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
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| Date | (print name here) | Roland Alexander VAN DE MOLENGRAAF | , Assignor |

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Nicolaas Petrus WILLARD

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
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| extent. Upon reclegal proceeding | quest at the expense of the Assign is including patent prosecution ac able, or convenient for securing a | he Assignee to enjoy the foregoing right, nee, I/we agree to execute all papers, take tions and infringement actions, and do al nd maintaining patents on the foregoing | e all rightful oaths, testify in all |
| I/We certify that | I/we have the full right to conve | y the above rights. | |
| | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Marc MATYSEK | , Assignor |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE MOLENGRAAF | , Assignor |

Nicolaas Petrus WILLARD

(print name here)

Date

PATENT REEL: 034309 FRAME: 0621

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
|-----------------|-------------------|--------------------------------------|------------|
| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
| Date 20/3-66-12 | (print name here) | Willem POTZE | , Assignor |
| Date | (print name here) | Sima ASVADI | , Assignor |
| Date | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
| Date | (print name here) | Jacob Roger HAARTSEN | , Assignor |
| Date | (print name here) | Mareike KLEE | , Assignor |
| Date | (print name here) | Matthew John LAWRENSON | , Assignor |
| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

Date

| and assign, and tr a place of busines | ansfer the entire and exclusive riss at High Tech Campus 5,5656 | re acknowledge receipt, I/we as a below-n ght, title, and interest in the following to I AE, Eindhoven, the Netherlands, its succe rely "the Assignee") my/our invention for | Coninklijke Philips N.V., having ssors, assigns, and legal |
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| was executed was filed on | | ving a Serial Noonal Application No. PCT/IB2013/05464 | |
| therewith, based to provisionals divis | thereon, or claiming priority ther sions, continuations, continuation | ner United States, foreign and international efrom including, but not limited to, any assis-in-part, re-examinations, reissues, and earight, title, and interest in and to any and | nd all provisionals, non- extensions thereof, and the right to |
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| I/We certify that | I/we have the full right to conve | y the above rights. | |
| Date | (sign name here) (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Marc MATYSEK | , Assigner |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE MOLENGRAAF | , Assignor |

Page 1 of 2

(print name here)

Nicolaus Petrus WILLARD

PATENT REEL: 034309 FRAME: 0623

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
|-----------|-------------------|--------------------------------------|------------|
| Date Date | (print name here) | Jøyce VAN ZANTEN | , Assignor |
| Date | (print name here) | Willem POTZE | , Assignor |
| Date | (print name here) | Sims ASVADI | , Assignor |
| Date | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
| Date | (print name here) | Jacob Roger HAARTSEN | , Assignor |
| Date | (print name here) | Mareike KLEE | , Assignor |
| Date | (print name here) | Maithew John LAWRENSON | , Assignor |
| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

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| was filed on. | 96 Jun 2013, having an Internati | onal Application No. PCT/IB2013/05464 | ¥8, |
| therewith, based provisionals divi | thereon, or claiming priority ther isions, continuations, continuations, | ner United States, foreign and internations efrom including, but not limited to, any as as-in-part, re-examinations, reissues, and a eright, title, and interest in and to any and | nd all provisionals, non- extensions thereof, and the right to |
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| extent. Upon re- legal proceeding | quest at the expense of the Assign is including patent prosecution ac- able, or convenient for securing a | ne Assignee to enjoy the foregoing right, the Assignee to execute all papers, take tions and infringement actions, and do all and maintaining patents on the foregoing in | all rightful oaths, testify in all other such acts which may be |
| I/We certify that | : I/we have the full right to conve | y the above rights. | |
| | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Mare MATYSEK | , Assignor |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE | , Assignor |

Nicolaas Petrus WILLARD

(print name here)

Date

PATENT REEL: 034309 FRAME: 0625

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
|---------------------------------------|-------------------|--------------------------------------|------------|
| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
| Date | (print name here) | Willem POTZE | , Assignor |
| Date | (print name here) | Sima ASVADI | , Assignor |
| $\frac{\sqrt{3/3/2014}}{\text{Date}}$ | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
| Date | (print name here) | Jacob Roger HAARTSEN | , Assignor |
| Date | (print name here) | Mareike KLEE | , Assignor |
| Date | (print name here) | Matthew John LAWRENSON | , Assignor |
| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

Date

| and assign, and t a place of busine | ransfer the entire and exclusive r ess at High Tech Campus 5,5656 | we acknowledge receipt, I/we as a below-right, title, and interest in the following to AE, Eindhoven, the Netherlands, its succeively "the Assignee") my/our invention for | Koninklijke Philips N.V., having essors, assigns, and legal |
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| | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Marc MATYSEK | , Assignor |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE | , Assignor |

Page 1 of 2

MOLENGRAAF

Nicolaas Petrus WILLARD

(print name here)

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
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| Date | (print name here) | Jøyce VAN ZANTEN | , Assignor |
| Date | (print name here) | Willem POTZE | , Assignor |
| Date | (print name here) | Sima ASVADI | , Assignor |
| Date | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
| Date | (print name here) | Jacob-Roger HAARTSEN | , Assignor |
| Date | (print name here) | Mareike KLEE | , Assignor |
| Date | (print name here) | Matthew John LAWRENSON | , Assignor |
| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Daie | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

Date

| and assign, and t a place of busine | ransfer the entire and exclusive riss at High Tech Campus 5,5656 | re acknowledge receipt, I/we as a below-reght, title, and interest in the following to lAE, Eindhoven, the Netherlands, its succeely "the Assignee") my/our invention for | Koninklijke Philips N.V., having essors, assigns, and legal |
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| therewith, based provisionals divi | thereon, or claiming priority ther sions, continuations, continuation | ner United States, foreign and international efrom including, but not limited to, any a sin-part, re-examinations, reissues, and a right, title, and interest in and to any and | nd all provisionals, non- extensions thereof, and the right to |
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| I/We certify that | I/we have the full right to conve | y the above rights. | |
| ····· | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Marc MATYSEK | , Assignor |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE MOLENGRAAF | , Assignor |

Page 1 of 2

(print name here)

Nicolaus Petrus WILLARD

PATENT REEL: 034309 FRAME: 0629

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
|--------------------|-------------------------------------|--------------------------------------|------------|
| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
| Date | (print name here) | Willem POTZE | , Assignor |
| Date | (print name here) | Sima ASVADI | , Assignor |
| Date | (print name here) | Rudoli Maria Jozef VONCKEN | , Assignor |
| Date | (print name here) | Jacob Roger HAARTSEN | , Assignor |
| 26.11.7014 Date | MQ Stife Ville (print name here) | Mareike KLEE | , Assignor |
| Date | (print name here) | Matthew John LAWRENSON | , Assignor |
| Date | (print name here) | Julian Charles NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |

| and assign, and to a place of busine | ransfer the entire and exclusive ri ss at High Tech Campus 5,5656 / | ve acknowledge receipt, I/we as a below- ght, title, and interest in the following to AE, Eindhoven, the Netherlands, its succ- rely "the Assignee") my/our invention for | Koninklijke Philips N.V., having essors, assigns, and legal |
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| and all rights in a therewith, based provisionals divi | and to said application, and all of thereon, or claiming priority ther sions, continuations, continuation | onal Application No. PCT/IB2013/0546 ner United States, foreign and internation efrom including, but not limited to, any ans-in-part, re-examinations, reissues, and a right, title, and interest in and to any ansemble title. | al patent applications associated and all provisionals, non- extensions thereof, and the right to |
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| | (sign name here) | | |
| Date | (print name here) | Cornelis Petrus HENDRIKS | , Assignor |
| Date | (print name here) | Susanne Maaike VALSTER | , Assignor |
| Date | (print name here) | Marc MATYSEK | , Assignor |
| Date | (print name here) | Sander Theodoor PASTOOR | , Assignor |
| Date | (print name here) | Roland Alexander VAN DE MOLENGRAAF | , Assignor |

Nicolaas Petrus WILLARD

(print name here)

Date

PATENT REEL: 034309 FRAME: 0631

| Date | (print name here) | Richard Johannus Maria VAN DE VEN | , Assignor |
|--------------------|--------------------------------|--------------------------------------|------------|
| Date | (print name here) | Joyce VAN ZANTEN | , Assignor |
| Date | (print name here) | Willem POTZE | , Assignor |
| Date | (print name here) | Sima ASVADI | , Assignor |
| Date | (print name here) | Rudolf Maria Jozef VONCKEN | , Assignor |
| Date | (print name here) | Jacob Roger HAARTSEN | , Assignor |
| Date 10(10/2014 | (print name here) M.J.LANENSON | Mareike KLEE | , Assignor |
| Date (5/10/2014) | (print name here) | Matthew John LAWRENSON | , Assignor |
| Date | (print name here) | Julian Chartes NOLAN | , Assignor |
| Date | (print name here) | Melanie Jane WINDRIDGE | , Assignor |