503856460 06/06/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3903109

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JASPER DE VREEDE	12/08/2014
FRANCISCUS JOHANNES GERARDUS HAKKENS	12/08/2014
KAREL JOHANNES ADRIANUS VAN DEN AKER	12/08/2014
EGBERTUS REINIER JACOBS	12/08/2014
MART KORNELIS-JAN TE VELDE	12/08/2014
CHRISTOPH DOBRUSSKIN	12/20/2014
GERBEN KOOIJMAN	12/08/2014
KLAAS JACOB LULOFS	01/05/2015
FREDERIK JAN DE BRUIJN	12/09/2014
JOHANNES WILHELMUS WEEKAMP	12/09/2014
SUSANNE MAAIKE VALSTER	12/11/2014

#### **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:	15101960

## **CORRESPONDENCE DATA**

**Fax Number:** (914)495-9540

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:** 914-495-9516

**Email:** debbie.henn@philips.com

Correspondent Name: PHILIPS INTELLECTUAL PROPERTY & STANDARD

Address Line 1: 465 COLUMBUS AVENUE

Address Line 2: SUITE 340

Address Line 4: VALHALLA, NEW YORK 10595

PATENT REEL: 038883 FRAME: 0733

503856460

ATTORNEY DOCKET NUMBER:	2013P01401WOUS
NAME OF SUBMITTER:	KATHLEEN A. ASHER
SIGNATURE:	/KATHLEEN A. ASHER/
DATE SIGNED:	06/06/2016

### **Total Attachments: 22**

source=2013P01401WOUS Assignment#page1.tif source=2013P01401WOUS\_Assignment#page2.tif source=2013P01401WOUS Assignment#page3.tif source=2013P01401WOUS\_Assignment#page4.tif source=2013P01401WOUS\_Assignment#page5.tif source=2013P01401WOUS Assignment#page6.tif source=2013P01401WOUS Assignment#page7.tif source=2013P01401WOUS\_Assignment#page8.tif source=2013P01401WOUS Assignment#page9.tif source=2013P01401WOUS Assignment#page10.tif source=2013P01401WOUS Assignment#page11.tif source=2013P01401WOUS\_Assignment#page12.tif source=2013P01401WOUS Assignment#page13.tif source=2013P01401WOUS Assignment#page14.tif source=2013P01401WOUS Assignment#page15.tif source=2013P01401WOUS\_Assignment#page16.tif source=2013P01401WOUS\_Assignment#page17.tif source=2013P01401WOUS\_Assignment#page18.tif source=2013P01401WOUS Assignment#page19.tif source=2013P01401WOUS\_Assignment#page20.tif source=2013P01401WOUS\_Assignment#page21.tif source=2013P01401WOUS\_Assignment#page22.tif

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

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, non-provisionals 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.

was executed by means on .....

08-12-2014	(sign name here)	Little Land	
Date	(print name here)	Jasper DE VREEDE	Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor
Date	(print name here)	Christoph DOBRUSSKIN	, Assignor

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Kinas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRULIN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaike VALSTER	, 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 AB, Eindhoven, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

	îs ex	cecuted c	oncurrently herewith
	was	executed	by me/us on
	was	filed on.	, having a Serial No.
$\boxtimes$	was	filed on.	85 Dec 2014, having an International Application No. PCT/EP2014/076681,

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, non-provisionals 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.

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I'We certify that I/we have the full right to convey the above rights.

	(sign name_bere)		
Date \$\$- /2 - 20/4	(prior name here)	Jasper DE VREEDE	, Assignor
Date	May rossic liere)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Kard Johannes Adrianus VAN DEN AKER	, Assignor
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor
Date	(print name here)	Christoph DOBRUSSKIN	. Assignor

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Kisas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaike VALSTER	, Assignor

and assign, and tra a place of business	nsfer the entire and exclusive ri at High Tech Campus 5,5656	ve acknowledge receipt, I/we as a below-nan ight, title, and interest in the following to Ko AE, Eindhoven, the Netherlands, its successo vely "the Assignee") my/our invention for wh	ninklijke Philips N.V., having ors, assigns, and legal
was executed b		ving a Serial Noonal Application No. PCT/EP2014/076681,	
therewith, based the provisionals divisi	ereon, or claiming priority ther	her United States, foreign and international prefrom including, but not limited to, any and as-in-part, re-examinations, reissues, and externing title, and interest in and to any and all	all provisionals, non- ensions thereof, and the right to
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extent. Upon required legal proceedings in	est at the expense of the Assign neluding patent prosecution ac- e, or convenient for securing a	ne Assignee to enjoy the foregoing right, title nee, I/we agree to execute all papers, take all tions and infringement actions, and do all oth and maintaining patents on the foregoing inve	rightful oaths, testify in all ner 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)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
<u>2014, dec S</u> Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	& Assignor

Christoph DOBRUSSKIN

(print name here)

Date

PATENT REEL: 038883 FRAME: 0739

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Kinas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRULIN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaike VALSTER	, 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:

□i	s executed c	oncurrently herewith
v	vas executed	by me/us on
v	vas filed on.	, having a Serial No
N N	vas filed on.	05 Dec 2014, having an International Application No. PCT/EP2014/076681,

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, non-provisionals 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	(print name here)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Oec. 9 <sup>81</sup> 204 Date	<u>Bas Jasobs</u> (print name here)	Egbertus Reinier JACOBS	Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor
Date	(print name here)	Christoph DOBRUSSKIN	, Assignor

Date	(print name here)	Gerbes KOOIJMAN	, Assignor
Date	(print name here)	Klas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Masike VALSTER	, Assigner

•		ve acknowledge receipt, I/we as a below-nam	•
		ight, title, and interest in the following to Kon	
^		AE, Eindhoven, the Netherlands, its successor	
representatives, in	chaing any nominees (conecus	vely "the Assignee") my/our invention for wh	існ ап аррисацон:
is executed con	currently herewith		
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and all rights in an	d to eaid application, and all of	her United States, foreign and international pr	etent annlications associated
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I/We will provide	myour cooperation to enable t	he Assignee to enjoy the foregoing right, title,	and interest to the fullest
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		nd maintaining patents on the foregoing inver	
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thereto in the Assi	gnee.		
I/We certify that I/	we have the full right to conve	y the shave rights	
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	(sign name here)		
Date	(print name here)	Jasper DE VREEDE	, Assignor
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Date	(print name here)	Franciscus Johannes Gerardus	, Assignor
	(11.11.11.11.11.11.11.11.11)	HAKKENS	, <b>g</b>
Date	(print name here)	Karel Johannes Adrianus VAN DEN	, Assignor
	ν ,	AKER	. 0
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
Q = UC-201		2 1 10 9 h All	
Date	(print name here)	Mart Kornelis-Jan J&VELDE	, Assignor
	<del>-</del>		

Christoph DOBRUSSKIN

(print name here)

Date

PATENT REEL: 038883 FRAME: 0743

 $_{\rm s}$  Assignor

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Klass Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Withelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Manike VALSTER	, Assignor

<u>Zo - / Z - Zo/ y</u> Date (print name here)

Posevsskik (print name here)

and assign, and transf a place of business at	er the entire and exclusive ri High Tech Campus 5,5656	ve acknowledge receipt, I/we as a below-namight, title, and interest in the following to Kor AE, Eindhoven, the Netherlands, its successorely "the Assignee") my/our invention for wh	ninklijke Philips N.V., having rs, assigns, and legal
was filed on	ne/us on, ha	ving a Serial Noonal Application No. PCT/EP2014/076681,	onene
therewith, based there provisionals divisions	con, or claiming priority then, continuation,	her United States, foreign and international parefrom including, but not limited to, any and a ns-in-part, re-examinations, reissues, and exter e right, title, and interest in and to any and all	all provisionals, non- ensions thereof, and the right to
	-	officials in the United States and in any and a the Assignee(s), for its sole use, and that of i	•
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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)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor

Mart Kornelis-Jan TE VELDE

Christoph DOBRUSSKIN

PATENT REEL: 038883 FRAME: 0745

, Assignor

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Kisas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaike VALSTER	, Assignor

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was executed was filed on.		ving a Serial No	
therewith, based to provisionals divis	hereon, or claiming priority ther ions, continuations, continuation	her United States, foreign and international prefrom including, but not limited to, any and assim-part, re-examinations, reissues, and exter right, title, and interest in and to any and all	all provisionals, non- ensions 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)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Date	(prini name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor

Christoph DOBRUSSKIN

(print name here)

PATENT REEL: 038883 FRAME: 0747

08-dee-2014			
Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Klass Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date .	(print name here)	Susanne Maaike VALSTER	, Assignor

Date

(print name here)

(print name here)

and assign, and transfer a place of business at Hi	the entire and exclusive rig gh Tech Campus 5,5656 Al	acknowledge receipt, I/we as a below-name ht, title, and interest in the following to Koni E, Eindhoven, the Netherlands, its successors by "the Assignee") my/our invention for whic	nklijke Philips N.V., having ., assigns, and legal
was filed on	us on, havi	ng a Serial No	sves
therewith, based thereon provisionals divisions, c	, or claiming priority theref ontinuations, confinuations	r United States, foreign and international pat from including, but not limited to, any and all in-part, re-examinations, reissues, and exten ight, title, and interest in and to any and all p	provisionals, non- sions thereof, and the right to
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I/We certify that I/we ha	ve the full right to convey t	he above rights.	
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	(sign name here)		
Date	(print name here)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor

Mart Kornelis-Jan TE VELDE

Christoph DOBRUSSKIN

PATENT REEL: 038883 FRAME: 0749

, Assignor

Date	(print name here)	Gerben KOOIJMAN	, Assignor
	(print name here)	Galassa Facob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaike VALSTER	, Assignor

•		ve acknowledge receipt, I/we as a below-name ght, title, and interest in the following to Kon	
<u>-</u> -		AE, Eindhoven, the Netherlands, its successor rely "the Assignee") my/our invention for wh	-
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was filed on. 05 Dec	2014, having an Internati	onal Application No. PCT/EP2014/076681,	
and all rights in and to s	said application, and all ot	ner United States, foreign and international pa	ntent applications associated
therewith, based thereon	n, or claiming priority ther	efrom including, but not limited to, any and a	ill provisionals, non-
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· · · · · · · · · · · · · · · · · · ·		officials in the United States and in any and a the Assignee(s), for its sole use, and that of it	<del>-</del>
I/We will provide my/o	ur cooperation to enable th	ne Assignee to enjoy the foregoing right, title,	and interest to the fullest
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		nd maintaining patents on the foregoing inven	-
thereto in the Assignee.			
I/We certify that I/we h	ave the full right to convey	y the above rights.	
	(sign name here)		
Date	(print name here)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus	, Assignor
		HAKKENS	
Date	(print name here)	Karel Johannes Adrianus VAN DEN	, Assignor
		AXXX	
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor

Christoph DOBRUSSKIN

(print name here)

PATENT REEL: 038883 FRAME: 0751

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Klass Jacob LULOFS	, Assignor
G-12-22/4	(print name here)	Profesik Joseph BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Masike VALSTER	, Assignor

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<del>-</del>	· ·	ely "the Assignee") my/our invention for whi	-
is executed concurrent	ntly herewith		
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I/We certify that I/we ha	ve the full right to convey	the above rights.	
	(sign name here)		
Date	(print name here)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus HAKKENS	, Assignor
Date	(print name here)	Karel Johannes Adrianus VAN DEN AKER	, Assignor
Date	(prini name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kernelis-Jan TE VELDE	, Assignor

Christoph DOBRUSSKIN

(print name here)

PATENT REEL: 038883 FRAME: 0753

Date	(print name here)	Gerben KOOIJMAN	, Assignor
Date	(print name here)	Klaas Jacob LULOFS	, Assignor
Date -/2 2 0 / 4	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(port ofme here)	Johannes Wilhelmus WEEKAMP	, Assignor
Date	(print name here)	Susanne Maaike VALSTER	, Assignor

		ve acknowledge receipt, I/we as a below-nam	
		ight, title, and interest in the following to Kor	* **
		AE, Eindhoven, the Netherlands, its successo	* **
representatives, i	ncluding any nominees (collectiv	ely "the Assignee") my/our invention for wh	ich an application:
is executed co	oncurrently herewith		
was executed	by me/us on	***************************************	
was filed on.	, ha	ving a Serial No	*******
was filed on.	05 Dec 2014, having an Internati	ional Application No. PCT/EP2014/076681,	
and all rights in a	and to said application, and all of	her United States, foreign and international p	atent applications associated
therewith, based	thereon, or claiming priority thei	refrom including, but not limited to, any and a	ill provisionals, non-
provisionals divi	sions, continuations, continuation	ns-in-part, re-examinations, reissues, and exte	nsions thereof, and the right to
claim priority the	ereto, and the entire and exclusive	e right, title, and interest in and to any and all	patents granted on these
applications.			
VWe authorize a	nd request that the Patent Office	officials in the United States and in any and a	Il foreign countries to issue
any and all Letter	rs Patent when granted, solely to	the Assignee(s), for its sole use, and that of it	ts successors, assigns, and
legal representati	ves.		
I/We will provide	e my/our cooperation to enable fi	ne Assignee to enjoy the foregoing right, title,	, and interest to the fullest
		nee, I/we agree to execute all papers, take all i	
		tions and infringement actions, and do all oth	
necessary, desira	ble, or convenient for securing a	nd maintaining patents on the foregoing inver	ition or for perfecting title
thereto in the Ass	signee.		
I/We certify that	I/we have the full right to conve	y the above rights.	
	(sign name here)		
Date	(print name here)	Jasper DE VREEDE	, Assignor
Date	(print name here)	Franciscus Johannes Gerardus	, Assignor
	**	HAKKENS	
Date	(print name here)	Karel Johannes Adrianus VAN DEN	, Assignor
		AKER	
Date	(print name here)	Egbertus Reinier JACOBS	, Assignor
Date	(print name here)	Mart Kornelis-Jan TE VELDE	, Assignor

Christoph DOBRUSSKIN

(print name here)

Date

PATENT REEL: 038883 FRAME: 0755

Date	(print name here)	Gerben KOOIJMAN	Assignor
Date	(print name here)	Klaas Jacob LULOFS	, Assignor
Date	(print name here)	Frederik Jan DE BRUIJN	, Assignor
Date	(print name here)	Johannes Wilhelmus WEEKAMP	
11 OEC 2014 Date	S-Volster (print name here)	Susanne Maaike VALSTER	, Assignor