

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6647989

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KONINKLIJKE PHILIPS N.V.	08/28/2019
RECEIVING PARTY DATA	
Name:	TRUMPF PHOTONIC COMPONENTS GMBH
Street Address:	LISE-MEITNER-STRASSE 13
City:	ULM
State/Country:	GERMANY
Postal Code:	89081
PROPERTY NUMBERS Total: 57	
Property Type	Number
Application Number:	09992709
Application Number:	09704345
Application Number:	09704346
Application Number:	10991992
Application Number:	10597701
Application Number:	12064640
Application Number:	12064642
Application Number:	12097352
Application Number:	12444050
Application Number:	12518903
Application Number:	12598218
Application Number:	12665124
Application Number:	15000494
Application Number:	15665471
Application Number:	12990798
Application Number:	13119016
Application Number:	13123759
Application Number:	13260584
Application Number:	13203051
Application Number:	13390545

Property Type	Number
Application Number:	13388713
Application Number:	13391295
Application Number:	13500678
Application Number:	13391303
Application Number:	13578712
Application Number:	13882998
Application Number:	14003818
Application Number:	14350404
Application Number:	14380943
Application Number:	14379326
Application Number:	14382793
Application Number:	14369222
Application Number:	14395525
Application Number:	14394859
Application Number:	14408521
Application Number:	14413017
Application Number:	14907636
Application Number:	14889705
Application Number:	14787691
Application Number:	15028546
Application Number:	15104599
Application Number:	15111023
Application Number:	15506035
Application Number:	15506032
Application Number:	15563636
Application Number:	15573846
Application Number:	15742547
Application Number:	12812046
Application Number:	12919257
Application Number:	12992100
Application Number:	13061787
Application Number:	13145261
Application Number:	13260747
Application Number:	15704449
Application Number:	13318153
Application Number:	13318159
Application Number:	13883007

CORRESPONDENCE DATA**Fax Number:** (312)616-5700

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ATTORNEY DOCKET NUMBER:	817818
NAME OF SUBMITTER:	THOMAS P. CANTY
SIGNATURE:	/Thomas P. Canty/
DATE SIGNED:	04/09/2021

Total Attachments: 11

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Confirmatory Deed of Assignment

Koninklijke Philips N.V.

with registered address at High Tech Campus 5, 5656 AE, Eindhoven (Netherlands),
whose legal representative is

Poul Erik de Haan

(Name, in block letters)

(the "ASSIGNOR") on one side and

TRUMPF Photonic Components GmbH

with registered address at Lise-Meitner-Strasse 13, 89081 Ulm (Germany), whose
legal representative is

JOSEPH PANKERT

(Name, in block letters)

(the "ASSIGNEE") on the other side commonly declare the following:

the ASSIGNOR possesses a legal interest in: (1) patents and patent applications; (2) any and all continuation, divisional, renewal, substitute, re-examination or reissue applications of the patents and patent applications; (3) all rights of priority, as listed on Annex A-1 and A-2 (collectively: "the Transferred Patents");

In consideration of a sum of €1.00 (one Euro), the receipt and sufficiency of which is hereby acknowledged the ASSIGNOR has, effective as from 31 March 2019, assigned all rights, title and interest in and to the Transferred Patents, including all rights to apply in any and all countries in the world for Patents for any inventions disclosed in the Transferred Patents listed in the Annex A-1 and A-2, provided that the ASSIGNOR and its Affiliates shall retain a non-exclusive, non-transferable, perpetual (for the lifetime of the Transferred Patents), world-wide, fully paid-up and unrestricted license, without the right to grant sub-licenses, under all Transferred Patents, to make, have made, sell or commercialize in any other way products and services. The ASSIGNEE accepted all rights, ownership and interests related to the patents listed on Annex A-1 and A-2 attached hereto;

The ASSIGNOR hereby agrees and authorizes the ASSIGNEE to submit solely this Deed of Assignment to the relevant patent offices where the Transferred Patents are registered, and to request those authorities to record the assignment of the Transferred Patents.

For the ASSIGNOR:

(Place, Date) Eindhoven, 28 August 2019

(Name) Poul Erik de Haan

(Title/Capacity) Authorized representative

For the ASSIGNEE:

(Place, Date) Ulm, 30.09.2019

(Name) JOSEPH PANKERT

(Title/Capacity) Managing Director



Family reference	Prior art reference	Title	Priority date	Country code	Application No.	Publication number	Grant number	Workflow status
Redacted lines								
2006P00141	2006P0141 US	METHOD OF MEASURING THE MOVEMENT OF AN INPUT DEVICE	06.11.2006 US		09/992729	US 20070154897 A1	4707227	National Procedure - Granted
Redacted lines								
2006P02305	2006P02305 US	VERTICAL CAVITY SURFACE EMITTING LASER WITH REDUCED PARASITIC CAPACITANCE	02.11.2000 US		09/704345	6570905		National Procedure - Granted
2006P02306	2006P02306 US	OPTOELECTRONIC DEVICE HAVING A HIGHLY CONDUCTIVE CARRIER TUNNELING CURRENT APERTURE	02.11.2000 US		09/704346	6546835		National Procedure - Granted
Redacted lines								
2003P03958	2003P03958 US	POLARIZATION CONTROL OF VERTICAL DIODE LASERS BY MONODIRECTIONALLY INTEGRATED SURFACE COATING	18.11.2003 US		30/992591	20050108444 A	7333212	National Procedure - Granted
Redacted lines								
2004P00309	2004P00309 MOUS	OPTICAL INPUT DEVICE BASED ON DOPPLER SHIFT AND LASER SELF-MINING	09.02.2004 US		30/537701	US 20070144201 A1	7434484	National Procedure - Granted
Redacted lines								
2006P02171	2006P02171 MOUS	METHOD OF MEASURING RELATIVE MOVEMENT IN TWO DIMENSIONS OF AN OBJECT AND AN OPTICAL INPUT DEVICE USING A SINGLE SELF-MINING LASER	30.08.2006 US		12/064840	US 20080212301 A1	7994868	National Procedure - Granted
Redacted lines								
2006P02172	2006P02172 MOUS	METHOD OF MEASURING RELATIVE MOVEMENT OF AN OBJECT AND AN OPTICAL INPUT DEVICE OVER A RANGE OF SPEEDS	30.08.2006 US		12/064842	US 20080212300 A1	7989953	National Procedure - Granted
Redacted lines								
2006P00173	2006P00173 MOUS	DEVICE AND METHOD FOR MEASURING RELATIVE MOVEMENT	20.12.2006 US		12/097352	US 20080192458 A1	7930299	National Procedure - Granted
Redacted lines								
2006P00014	2006P0014 MOUS	LASER CONTROLLER	03.10.2006 US		12/444050	US 201000698119 A1	8443082	National Procedure - Granted
Redacted lines								
2006P02384	2006P02384 MOUS	SYSTEM FOR AND METHOD OF HEATING OBJECTS IN A PRODUCTION LINE	19.12.2006 US		12/518929	US 20100230863 A1	9789551	National Procedure - Granted
Redacted lines								
2007P00015	2007P0015 MOUS	LASER SENSOR FOR SELF-MINING INTERFEROMETRY WITH INCREASED DETECTION RANGE	07.05.2007 US		12/558218	US 20100154893 A1	9397476	National Procedure - Granted
Redacted lines								



Family reference	Philips' reference	Priority date	Country code	Application No.	Publication number	Grant number	Workflow status
Redacted lines							
2007P01213	2007P01199M0US	27.06.2007 US	US	12/065124	US 20100107483 A1	8174087	National Procedure - Granted
Redacted lines							
2007P01355	2007P01383 US	11.12.2007 US	US	15/000494		9735546	National Procedure - Granted
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2007P01365	2007P01383 US01	11.12.2007 US	US	15/069471		10164407	National Procedure - Granted
Redacted lines							
2008P00546	2008P00556M0US	08.05.2008 US	US	12/968798	US 20110064110 A1	8457428	National Procedure - Granted
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2008P01012	2008P01012M0US	17.09.2008 US	US	13/119016	US 20110164633 A1	8445719	National Procedure - Granted
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2008P01087	2008P01087M0US	14.10.2008 US	US	13/127799	US 20110186511 A1	8515447	National Procedure - Granted
Redacted lines							
2009P00009	2009P00009M0US	31.03.2009 US	US	13/740584	US 20110081693 A1	9134813	National Procedure - Granted
Redacted lines							
2009P00017	2009P00117M0US	25.02.2009 US	US	13/203061	US 20120014400 A1	8617382	National Procedure - Granted
2009P00055	2009P00055M0US	17.08.2009 US	US	13/390546	US 20120176965 A1	8992334	National Procedure - Granted
Redacted lines							
2009P00095	2009P00095M0US	10.06.2009 US	US	13/488713	US 20120128901 A1	8451170	National Procedure - Granted
Redacted lines							
2009P01076	2009P01076M0US	20.08.2009 US	US	13/731295	US 20120167912 A1	9158941	National Procedure - Granted
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Family reference	Patent reference	Priority date	Country code	Application No.	Publication number	Grant number	Workflow status
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2009P001249	2009P01159W00US	24.10.2009 US		13/590676	US 20120209658 A1	9091717	National Procedure - Granted
Redacted lines							
2009P010900	2009P01280W00US	20.08.2009 US		13/791393	US 20120281293 A1	9046833	National Procedure - Granted
Redacted lines							
2010P010107	2010P00307W00US	18.03.2010 US		13/578712	US 20130178379 A1	9573385	National Procedure - Granted
Redacted lines							
2010P000859	2010P00929W00US	03.11.2010 US		13/862368	US 20130232466 A1	9412330	National Procedure - Granted
Redacted lines							
2011P010156	2011P00158W00US	09.03.2011 US		14/000815	US 20130133418 A1	8891569	National Procedure - Granted
Redacted lines							
2013P010195	2013P00109W00US	10.10.2011 US		14/762404	US 20130445129 A1	9065335	National Procedure - Granted
Redacted lines							
2011P020071	2011P02071W00US	02.03.2012 US		14/768943	US 20130006709 A1	9031109	National Procedure - Granted
Redacted lines							
2011P020111	2011P02111W00US	22.02.2012 US		14/779326	US 20130022668 A1	1001967	National Procedure - Granted
Redacted lines							
2013P020358	2013P02038W00US	14.03.2012 US		14/7862793	US 20130071320 A1	9172213 B2	National Procedure - Granted
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2013P020535	2013P02059W00US	17.01.2011 US		14/562022	US 20130640160 A1	9812906	National Procedure - Granted
Redacted lines							

Revision: 006



Family reference	Patent reference	Title	Priority date	Country code	Application No	Publication number	Grant number	Workflow status
2013P020605	2013P020605AUS	SEPARATELY CONTROLLABLE ARRAY OF RADIATION ELEMENTS	23.04.2012	US	14/795525		9276705	National Procedure - Granted
Redacted lines								
2013P020606	2013P020606AUS	LIGHTING APPARATUS FOR REDUCING LIGHT FOR PROCESSING AN OBJECT	20.04.2012	US	14/736482		9403378	National Procedure - Granted
Redacted lines								
2013P020607	2013P020607AUS	LASER MODULE FOR HOMOGENEOUS LINE-SHAPED INTENSITY PROFILES	26.09.2012	US	14/498521	US 20150155695 A1	9147996	National Procedure - Granted
Redacted lines								
2013P020608	2013P020608AUS	VESEL WITH INTRACAVITY CONTACTS	11.07.2012	US	14/413017		9527854	National Procedure - Granted
Redacted lines								
2013P020609	2013P020609AUS	Laser device with adjustable polarization	07.08.2013	US	14/902636		10135225	National Procedure - Granted
Redacted lines								
2013P020610	2013P020610AUS	MOUNTING LAYER FOR COOLING STRUCTURE	08.05.2013	US	14/285765		9515453	National Procedure - Granted
Redacted lines								
2013P020611	2013P020611AUS	Cooling device for cooling a laser arrangement and laser system comprising cooling devices	02.05.2013	US	14/757621		9552490	National Procedure - Granted
Redacted lines								
2013P020612	2013P020612AUS	COMPACT LASER DEVICE	16.10.2013	US	15/039546	US 20160234690 A1	10116216	National Procedure - Granted
Redacted lines								
2013P020613	2013P020613AUS	LASER MODULE WITH SIMPLIFIED ALIGNMENT	20.12.2013	US	15/104599	US 20160313447 A1	9862346	National Procedure - Granted
Redacted lines								



Family reference	Philips' reference	Title	Priority date	Country code	Application No.	Publication number	Grant number	Workflow status
Redacted lines								
2013P02170	2013P02170MUS	HEATING SYSTEM COMPRISING SEMICONDUCTOR LIGHT SOURCES	17.01.2014 US		15/111023	US 20160381732 A1	10159113	National Procedure - Granted
Redacted lines								
2014P00982	2014P00982MUS	PRINTED CIRCUIT BOARD AND PRINTED CIRCUIT BOARD ARRANGEMENT	24.05.2014 US		15/509035		10129606	National Procedure - Granted
Redacted lines								
2014P03090	2014P03090MUS	Vertical cavity surface emitting laser	25.09.2014 US		25/006002	US 20170802056 A1	9987335	National Procedure - Granted
Redacted lines								
2015P00210	2015P00210MUS	SAFE LASER DEVICE FOR OPTICAL SENSING APPLICATIONS	30.04.2015 US		15/509646		10161703	National Procedure - Granted
Redacted lines								
2015P00438	2015P00438MUS	VERTICAL CAVITY SURFACE EMITTING LASER	05.06.2015 US		15/572846		10129606	National Procedure - Granted
Redacted lines								
2015P040213	2015P040213MUS	LASER PRINTING SYSTEM	23.07.2015 US		25/741547			National Procedure
Redacted lines								

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Family / Internal file number	Internal file number	Title	Priority date	Country of application number	Publication number	Grant number	Workflow status	Transfer date
Redacted lines								
2008P000166	2008P000166W0US	LASER SENSOR SYSTEM BASED ON SELF-ADAPTING INTERFERENCE	2008-jan-16 US	US 20110007293 A1	8662979	National Procedure - Transferred	2019-apr-01	
Redacted lines								
Redacted lines								
2008P000563	2008P000563W0US	SENSOR SYSTEM, VEHICLE CONTROL SYSTEM AND DRIVER INFORMATION SYSTEM FOR VEHICLE SAFETY	2008-may-13 US	US 20110095093 A1	8781091	National Procedure - Transferred	2019-apr-01	
Redacted lines								
2008P000876	2008P000876W0US	SECURITY SYSTEM COMPRISING A SELF-MIXING LASER SENSOR AND METHOD OF DRIVING SUCH A SECURITY	2008-may-16 US	US 20110118843 A1	8781687	National Procedure - Transferred	2019-apr-01	
Redacted lines								
Redacted lines								
2008P01649	2008P01649W0US	VELOCITY DETERMINATION APPARATUS	2008-sep-09 US	US 20110160987 A1	8560180	National Procedure - Transferred	2019-apr-01	
Redacted lines								
Redacted lines								
2008P010003	2008P010003W0US	METHOD FOR ADJUSTING A SELF-MIXING LASER SENSOR SYSTEM FOR MEASURING THE VELOCITY OF A VEH	2008-jan-20 US	US 20110018613 A1	9236024	National Procedure - Transferred	2019-apr-01	
Redacted lines								
2009P010004	2009P010004W0US	METHOD AND DEVICE FOR DETECTING ACTION	2009-may-31 US	US 20110091675 A1	9013709	National Procedure - Transferred	2019-apr-01	
2009P010044	2009P010044W0US	A LASER DIODE BASED MULTIPLE-BEAM LASER SPOT IMAGING SYSTEM FOR CHARACTERIZATION OF VEHICLE	2009-apr-29 US	US 20110094448		National Procedure - Transferred	2019-apr-01	
Redacted lines								
2009P010044	2009P010044W0US	A LASER DIODE BASED MULTIPLE-BEAM LASER SPOT IMAGING SYSTEM FOR CHARACTERIZATION OF VEHICLE	2009-apr-29 US	US 20110094477 A1	9666689	National Procedure - Transferred	2019-apr-01	
Redacted lines								
2009P010045	2009P010045W0US	LASER DIODE BASED SELF-MIXING SENSOR FOR A VEHICLE ELECTRONIC STABILITY PROGRAM	2009-apr-29 US	US 20110093756 A1	8775310	National Procedure - Transferred	2019-apr-01	
Redacted lines								

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List of Transferred Patent Rights
Subject to pending prosecution and occasional errors

Transfer Patent rights (prepared for Trumpf)
Annex A-2

Project Phisach

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2010P00918 2010R00918W01S VELOCITY DETERMINATION APPARATUS 2010-nov-03 US 13/883507 US 2013026508 A1 9508944 National Procedure - Transferred 2019-apr-01

