

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT7077373

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	HAWK-EYE INNOVATIONS LIMITED	05/21/2020
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	SONY EUROPE BV	
<b>Street Address:</b>	THE HEIGHTS, BROOKLANDS	
<b>City:</b>	WEYBRIDGE, SURREY	
<b>State/Country:</b>	UNITED KINGDOM	
<b>Postal Code:</b>	KT13 0XW	
<b>Name:</b>	SONY CORPORATION	
<b>Street Address:</b>	1-7-1 KONAN	
<b>City:</b>	MINATO-KU, TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	108-0075	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	16671214
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(703)413-2220	
<i>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.</i>		
<b>Phone:</b>	(703) 413-3000	
<b>Email:</b>	corpassignments@oblon.com	
<b>Correspondent Name:</b>	OBLON, ET AL.	
<b>Address Line 1:</b>	1940 DUKE STREET	
<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22314	
<b>ATTORNEY DOCKET NUMBER:</b>	524217US	
<b>NAME OF SUBMITTER:</b>	ELLEN MURABITO	
<b>SIGNATURE:</b>	/ELLEN MURABITO/	
<b>DATE SIGNED:</b>	12/16/2021	
<b>Total Attachments: 6</b>		

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Docket No. 524217US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Luke DODD

SERIAL NUMBER: 16/671,214

ATTN: ASSIGNMENT BRANCH

FILING DATE: November 1, 2019

FOR: A METHOD, APPARATUS AND COMPUTER PROGRAM FOR IMAGE  
PROCESSING INCLUDING GENERATING A DIFFERENT IMAGE OF AT  
LEAST ONE OBJECT

**IDENTIFICATION OF PATENT(S) AND  
PATENT APPLICATION(S) UNDER 37 C.F.R. § 3.21**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

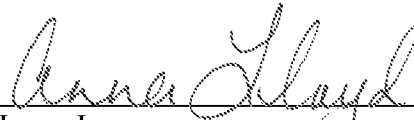
Commissioner:

The attached Assignment contains a reference to United Kingdom Priority No. 1818313.7, and is believed, in combination with the U.S. application number and filing date captioned above, to adequately identify this application in accordance with 37 C.F.R. § 3.21, as set forth in M.P.E.P. § 302.03.

Applicant respectfully requests recordation of the attached Assignment.

Respectfully Submitted,

OBLON, McCLELLAND,  
MAIER & NEUSTADT, L.L.P.



James Love

Registration No. 58,421

Customer Number

**22850**

Tel. (703) 413-3000  
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(OMMN 01/21/21)

Anna Z. Lloyd

Registration No.: 65,062

**FULL INVENTOR ASSIGNMENT AND ASSIGNMENT FROM HAWK-EYE TO SONY CORPORATION AND SONY EUROPE BV JOINTLY**

WHEREAS, I, as a named inventor listed on the attached APPENDIX (hereinafter referred to as "APPENDIX"), have invented certain new and useful improvements in the invention(s) listed on the same, for which an application for Letters Patent was executed on the priority date included thereon;

AND WHEREAS, HAWK-EYE INNOVATIONS LIMITED, a corporation organized and existing under the laws of the United Kingdom, with offices at Legal Department, The Heights, Brooklands, Weybridge, Surrey, KT13 0XW, United Kingdom (hereinafter referenced as "ASSIGNEE HAWK-EYE"), in accordance with my employment agreement and/or with a preexisting agreement or mutual understanding between myself and ASSIGNEE HAWK-EYE, is desirous of acquiring my entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America);

AND WHEREAS, SONY EUROPE BV, a corporation organized and existing under the laws of the Netherlands, with offices at The Heights, Brooklands, Weybridge, Surrey, KT13 0XW, United Kingdom (hereinafter referenced as "CO-ASSIGNEE SEU") is desirous of acquiring, directly or indirectly, an undivided partial interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America) to be jointly held with CO-ASSIGNEE SONY as the co-owners to the rights by this assignment;

AND WHEREAS, SONY CORPORATION, a corporation organized and existing under the laws of Japan, with offices at 1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan (hereinafter referenced as "CO-ASSIGNEE SONY") is desirous of acquiring an undivided partial interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America) to be jointly held with CO-ASSIGNEE SEU as the co-owners to the rights by this assignment;

NOW THEREFORE, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, I, as an inventor as indicated above, by these presents do hereby assign, sell and transfer unto said ASSIGNEE HAWK-EYE, the entire right, title and interest in and to the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to

Assignment Inventor to Hawk-Eye and Assignment to SEU and Sony Corp. jointly

any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America) in respect of the inventions which are the subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE HAWK-EYE, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

I, as an inventor, further declare that I either have the obligation to assign or have already assigned the full and exclusive rights in and to any inventions made during my employment to said ASSIGNEE HAWK-EYE based on my employment contract with said ASSIGNEE HAWK-EYE, and/or that said ASSIGNEE HAWK-EYE has obtained full and exclusive rights in and to any such inventions based on applicable national law or in accordance with a preexisting agreement between myself and ASSIGNEE HAWK-EYE, and that by this Assignment such transfer of right, title and interest in such inventions to said ASSIGNEE HAWK-EYE is herewith confirmed or restated.

CONCURRENTLY HEREWITH, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, ASSIGNEE HAWK-EYE has already assigned, directly or indirectly, by other means to said CO-ASSIGNEE SEU and said CO-ASSIGNEE SONY jointly, or by these presents does hereby presently assign, directly or indirectly, sell and transfer unto said CO-ASSIGNEE SEU and said CO-ASSIGNEE SONY jointly, their successors, assigns, and legal representatives, the entire right, title and interest in the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America) in respect of the inventions which are subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the CO-ASSIGNEE SEU and the CO-ASSIGNEE SONY, or their successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

The undersigned inventor and ASSIGNEE HAWK-EYE hereby authorize and request the Commissioner of Patents of the United States and its territorial possessions, and other appropriate officials whose duty it is to issue patents in any country in the world, to issue any and all patents resulting from the aforesaid patent applications or any divisions, continuations, substitutions and

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renewals thereof, when granted, jointly to CO-ASSIGNEE SEU and CO-ASSIGNEE SONY, as the co-assignees of the full right, title and interest in and to the same;

The undersigned inventor and ASSIGNEE HAWK-EYE further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of CO-ASSIGNEE SEU and CO-ASSIGNEE SONY, or their designee or successors, without further remuneration, in order to perfect title in said invention(s), modifications, and improvements in said invention(s), applications and Letters Patent in any country in the world (including in the territory of the United States of America);

The undersigned inventor and ASSIGNEE HAWK-EYE further agree to properly execute and deliver and without further remuneration or consideration, such necessary or desirable and lawful papers for application(s) for foreign patents, for filing subdivisions of said application(s) for patent, and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for the aforesaid invention(s), as CO-ASSIGNEE SEU and CO-ASSIGNEE SONY shall hereafter require and prepare at CO-ASSIGNEE SEU and CO-ASSIGNEE SONY's own expense;

The undersigned inventor and ASSIGNEE HAWK-EYE further agree that CO-ASSIGNEE SEU and CO-ASSIGNEE SONY will, upon request, be provided promptly with all pertinent facts and documents relating to said application(s), said invention(s) and said Letters Patent and legal equivalents in foreign countries as may be known and accessible and will testify as to the same in any interference or litigation related thereto;

The undersigned inventor and ASSIGNEE HAWK-EYE hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And the undersigned inventor and ASSIGNEE HAWK-EYE hereby authorize and request the attorney(s) of record in this application to insert on the APPENDIX any further identification, including the filing date and application number of the country in which an application for Letters Patent has been or will be subsequently filed, which may be necessary or desirable in order to comply with the rules of the patent office of that country for recordation of this document.

This Assignment Agreement shall be governed by and construed under the laws of the State of New York, United States of America, without regard to conflict of laws principles, all rights and remedies being governed by said laws.

Assignment Inventor to Hawk-Eye and Assignment to SEU and Sony Corp. jointly

This assignment executed on the dates indicated below.

Luke Dodd

21 May 2020

Name of inventor

Execution date of this assignment [DD/MONTH/YYYY]

*Luke Dodd*

Signature of inventor

HAWK-EYE INNOVATIONS LIMITED

Date: 21 May 2020

[DD/MONTH/YYYY]

By: *Adam Fry*

Name: Adam Fry

Title: Director

As duly authorized officer

SONY EUROPE BV

Date: 27 May 2020

[DD/MONTH/YYYY]

By: *Nicolas Rose*

Name: Nicolas Rose

Title: IP Senior Manager

As duly authorized officer

SONY CORPORATION

Date: 01 /October/2020

[DD/MONTH/YYYY]

By: *Mitsuyoshi Doshida*

Name: Mitsuyoshi Doshida

Title: General Manager

As duly authorized officer  
Planning & Control Department  
Intellectual Property Division  
Sony Corporation

Assignment Inventor to Hawk-Eye and Assignment to SEU and Sony Corp. jointly

## APPENDIX

Title	Inventors	GB Application	GB Filing Date	Sony Reference	U.S. Application	U.S. Filing Date
A METHOD, APPARATUS AND COMPUTER PROGRAM FOR IMAGE PROCESSING	DODD, Luke	1818337	09 Nov 18	I-18-154		