504459790 07/17/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TUNC OZAN AYDIN	06/28/2017
FLORIAN MICHAEL SCHEIDEGGER	06/28/2017
MICHAEL STEFANO FRITZ SCHAFFNER	06/24/2017
LUKAS CAVIGELLI	07/17/2017
LUCA BENINI	07/17/2017
ALJOSA ALEKSEJ ANDREJ SMOLIC	06/26/2017

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15588463

CORRESPONDENCE DATA

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PATENT REEL: 043023 FRAME: 0533

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NAME OF SUBMITTER:	: JENNIFER CHAVIS	
SIGNATURE:	/Jennifer Chavis/	
DATE SIGNED:		07/17/2017
Total Attachments: 7		

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PATENT REEL: 043023 FRAME: 0534

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, those named herein as "Assignors" are the inventors of the invention described and set forth in the below-identified patent application for United States Letters Patent;

Title of Invention: EDGE-AWARE SPATIO-TEMPORAL FILTERING AND

OPTICAL FLOW ESTIMATION IN REAL TIME

Inventor(s)/Assignors: Tunc Ozan AYDIN of Zurich, Switzerland,

Florian Michael SCHEIDEGGER of Unterramsern,

Switzerland,

Michael Stefano Fritz SCHAFFNER of Zurich, Switzerland,

Lukas CAVIGELLI of Zurich, Switzerland,

Luca BENINI of Zurich, Switzerland,

Aljosa Aleksej Andrej SMOLIC of Dublin, Ireland

Dates of execution of Declaration: 06/24/2017; 06/26/2017; 06/28/2017; and 07/17/2017

Filing Date: May 5, 2017

Patent Application No.: 15/588,463

WHEREAS, The Walt Disney Company (Switzerland) GmbH, a Swiss Corporation, with offices at Höschgasse 45, CH-8008 Zürich, Switzerland, and ETH Zurich (Eidgenoessische Technische Hochschule Zürich), a corporation of Switzerland, with offices at Raemistrasse 101, 8092 Zürich, Switzerland,) hereinafter referred to as "ASSIGNEES," are desirous of acquiring a joint undivided interest in the invention and patent application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignees with full title guarantee all right, title and interest in and to each and every invention disclosed in the patent application, the patent application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the patent application as provided by the Paris Convention or otherwise. The right, title and interest is to be held and enjoyed by Assignees and Assignees' successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof, and the right to recover, and to bring all such proceedings as may be necessary for the recovery of, damages or other forms of relief in respect of any and all infringements of the Letters Patent or Registrations, and all rights under the International Convention for the Protection of Industrial Property.

Assignors further agree that they will, without charge to Assignors, but at Assignees' expense, (a) cooperate with Assignees in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignees lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignees, or Assignees' successors and assigns.

REEL: 043023 FRAME: 0535

Assignors hereby authorize and request Patterson & Sheridan, L.L.P., to insert hereinabove the application number, declaration dates and filing date of the above-referenced patent application when known, if not already present.

IN TESTIMONY WHEREOF,	Assignors have signed their names on the dates indicate	ed.
Dated: <u>23 5 9 9 9</u>	Full Ozan AYDIN	
Description of the second of t	Florian Michael SCHEIDEGGER	
Dated:	Michael Stefano Fritz SCHAFFNER	
Dated:	Lukas CAVIGELLI	
Dated:	Luca BENINI	
Dated:	Aljosa Aleksej Andrej SMOLIC	

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Disted:	Time Ozen AYDIN
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	Michael Stefano Fritz SCHAFFNER
Dared:	Łukaś CAVIGELLI
Dated:	Luca BENINI
Dased:	Aljosa Aleksej Andrej SMOLIC

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Dated:	
	Tunc Ozan AYDIN
Dated:	
	Florian Michael SCHEIDEGGER
Dated: <u>24.06.701</u> 7	Michael Stefand Fritz SCHAFFNER
Dated:	Lokas CAVIGELLI
Dated:	Luca BENINI
Dated:	Aliosa Aleksei Andrei SMOI IC

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Dated:	
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	Florian Michael SCHEIDEGGER
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	Michael Stetano Fritz SCHAFFNER
	and the second second
Dated: 19. 9.2017	Lukas CAYBELLI
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Dated:	
2-233,046.	Luca BENINI
Dated:	
	- Aljosa Aleksej Andrej SMOLIC

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Dated:	Michael Stefano Fritz SCHAFFNER
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	Lukas CAVIGELLI
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Dated: 3/17/17-	
Oated: 17/77/07	Luca BENINI
Dated:	
Paces:	Aljosa Aleksej Andrej SMOLIC

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Dated:	
	Tune Ozan AYDIN
Dated:	Florian Michael SCHEIDEGGER
Yafed:	
Dated:	Michael Stefano Fritz SCHAFFNER
Deted:	Lukas CAVIGELLI
Dated:	Luca BENINI
Dated: 26.06.7017	Aljosa Aleksej Andrej SMOLIC