506697053 06/03/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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LUCA KUBIN	06/03/2021

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16644723
Application Number:	62606736

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NAME OF SUBMITTER:	EMA HYSESANI
SIGNATURE:	/Ema Hysesani/
DATE SIGNED:	06/03/2021

Total Attachments: 4

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PATENT 506697053 REEL: 056432 FRAME: 0353

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PATENT REEL: 056432 FRAME: 0354

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

ASSIGNOR:

Ozan K. Tonguz c/o Carnegie Mellon University 5000 Forbes Avenue Pittsburgh, PA 15213 United States of America

Does hereby sell, assign and transfer to

ASSIGNEE:

Carnegie Mellon University, having a business address at: 5000 Forbes Avenue
Pittsburgh, PA 15213
US

an invention known as and entitled:

"SYSTEMS AND METHODS FOR VIRTUAL TRAFFIC LIGHTS IMPLEMENTED ON A MOBILE COMPUTING DEVICE"

(the "Invention") and which is described in one or more of the following U.S., foreign and/or regional applications naming the above inventor for the above-entitled Invention:

U.S. Provisional Patent Application Serial No. 62/606,736, filed October 5, 2017 International Patent Application Serial No. PCT/US2018/54604, filed on October 5, 2018 U.S. Patent Application Serial No. 16/644,723, filed on March 5, 2020

ASSIGNOR further assigns the above-referenced patent applications, and any further patent applications claiming priority to the above-referenced patent applications, or describing the Invention, filed in the United States or in any foreign country or in any region defined by treaty, and any continuations, continuations-in-part, divisionals, renewals, or substitutes thereof, and all patents which may issue therefrom, and any reissues or re-examinations of any issued patents.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

PATENT REEL: 056432 FRAME: 0355 ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said Invention and said patents and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce the above-references applications, said Invention and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

	2/15/2021	
Intending to be bound thereby, I have hereunto set hand and seal this	_ day of	, 2020.
, Ozan K. Tonguz		/
Ozan K. Tonguz		

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

ASSIGNOR:

Luca Kubin c/o Carnegie Mellon University 5000 Forbes Avenue Pittsburgh, PA 15213 United States of America

Does hereby sell, assign and transfer to

ASSIGNEE:

Carnegie Mellon University, having a business address at: 5000 Forbes Avenue
Pittsburgh, PA 15213
US

an invention known as and entitled:

"SYSTEMS AND METHODS FOR VIRTUAL TRAFFIC LIGHTS IMPLEMENTED ON A MOBILE COMPUTING DEVICE"

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ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

PATENT REEL: 056432 FRAME: 0357 ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said Invention and said patents and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce the above-references applications, said Invention and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

		6/3/2021	
Intending to be bound thereby, I have hereunto	set hand and seal this _	day of	, 2021.
	1 K h		/
	Luca Kubin		•

REEL: 056432 FRAME: 0358

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