

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6018229

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CAEDMON SOMERS | 10/22/2019 |
| JASON RUPERT | 10/22/2019 |
| IGOR BOROVIKOV | 10/17/2019 |
| AHMAD BEIRAMI | 10/17/2019 |
| YUNQI ZHAO | 10/17/2019 |
| MOHSEN SARDARI | 10/17/2019 |
| JOHN KOLEN | 02/04/2020 |
| NAVID AGHDAIE | 10/17/2019 |
| KAZI ATIF-UZ ZAMAN | 10/18/2019 |
| RECEIVING PARTY DATA | |
| Name: | ELECTRONIC ARTS INC. |
| Street Address: | 209 REDWOOD SHORES PKWY |
| City: | REDWOOD CITY |
| State/Country: | CALIFORNIA |
| Postal Code: | 94065 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16507864 |
| CORRESPONDENCE DATA | |
| Fax Number: | (949)760-9502 |
| <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> | |
| Phone: | 9497600404 |
| Email: | efiling@knobbe.com |
| Correspondent Name: | KNOBBE, MARTENS, OLSON & BEAR, LLP |
| Address Line 1: | 2040 MAIN STREET |
| Address Line 2: | 14TH FLOOR |
| Address Line 4: | IRVINE, CALIFORNIA 92614 |
| ATTORNEY DOCKET NUMBER: | EAI.247A |
| NAME OF SUBMITTER: | DAVID J. GRANT |

PATENT

| | |
|----------------------------------------------------------------------------|------------------------------------------------------------|
| SIGNATURE: | /DAVID J. GRANT/ |
| DATE SIGNED: | 03/17/2020 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 10 | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page1.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page2.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page3.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page4.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page5.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page6.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page7.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page8.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page9.tif | |
| source=2019-10-29 Assignment _Declaration [Executed] - EAI.247A#page10.tif | |

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 1 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Declaration

This Declaration is directed to U.S. or International Application No. **16/507864**, filed July 10, 2019 and incorporating any amendments made thereto prior to the signature date of this Declaration.

As a named inventor, I declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

Assignment from Inventors

WHEREAS, above-identified inventors (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental designs, or discoveries related to DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been filed or prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application"), and ASSIGNOR desires to assign or confirm assignment of the Work and the Application to the below identified Assignee.

AND WHEREAS, **Electronic Arts Inc.**, with its principal place of business at 209 Redwood Shores Pkwy. Redwood City, CA 94065 (hereinafter the "ASSIGNEE"), desires to acquire or confirm ownership of the entire right, title, and interest in and to the Application and the Work.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred, and set over, and by these presents does hereby sell, assign, transfer, and set over, unto said ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in and to the Application and the Work, including: all provisional applications relating to the Work and the Application (including but not limited to U.S. Provisional Application No(s) , filed (respectively if plural applications)); all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals, and reissues thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 2 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives, and assigns.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will: communicate to said ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Work; testify in any legal proceeding; assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto; sign/execute all lawful papers; authorize the filing of, execute, and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications; and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for the Work in all countries.

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 3 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Caedmon Somers

Signature: Caedmon Somers Date: 10/22/2019

Witnessed by: Amirali Shariff

Witness Name (printed): AMIRALI SHARIFF

Legal Name of Inventor: Jason Rupert

Signature: Jason Rupert Date: 10/22/2019

Witnessed by: Amirali Shariff

Witness Name (printed): AMIRALI SHARIFF

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

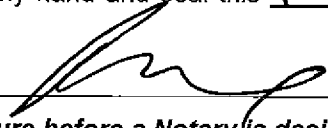
Page 4 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdale, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Igor Borovikov

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 12th day of October, 2019.

Signature:  _____
Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA }
COUNTY OF _____ } ss.

On _____, before me, _____, notary public, personally appeared Igor Borovikov who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 5 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Ahmad Beirami

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17 day of October, 2019.

Signature: Ahmad Beirami

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA }
COUNTY OF _____ } ss.

On _____, before me, _____, notary public, personally appeared Ahmad Beirami who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

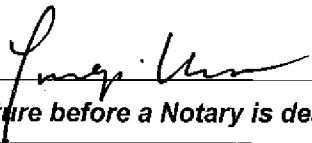
Page 6 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Yunqi Zhao

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17th day of October, 2017

Signature: 
Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA }
COUNTY OF _____ } ss.

On _____, before me, _____, notary public, personally appeared Yunqi Zhao who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

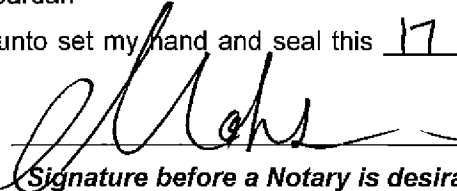
Page 7 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Mohsen Sardari

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17 day of Oct, 2019.

Signature: 

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA }
COUNTY OF _____ } ss.

On _____, before me, _____, notary public, personally appeared Mohsen Sardari who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 8 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: John Kolen

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4 day of February, 2020.

Signature: [Handwritten Signature]

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF _____

} ss.

On _____, before me, _____, notary public, personally appeared John Kolen who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 9 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Navid Aghdaie

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17 day of October, 2019.

Signature: *Navid Aghdaie*

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA }
COUNTY OF _____ } ss.

On _____, before me, _____, notary public, personally appeared Navid Aghdaie who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: EAI.247A

Page 10 of 10

Title: DISTRIBUTED TRAINING FOR MACHINE LEARNING OF AI CONTROLLED VIRTUAL ENTITIES ON VIDEO GAME CLIENTS

Inventors: Caedmon Somers, Jason Rupert, Igor Borovikov, Ahmad Beirami, Yunqi Zhao, Mohsen Sardari, John Kolen, Navid Aghdaie, and Kazi Atif-Uz Zaman

Legal Name of Inventor: Kazi Atif-Uz Zaman

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13th day of October, 2019.

Signature: Kazi Atif Uz Zaman

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF _____

} ss.

On _____, before me, _____, notary public, personally appeared Kazi Atif-Uz Zaman who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature

[SEAL]