### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6901836

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TUOMAS HAPOLA	04/22/2021
HEIKKI NIEMINEN	04/28/2021
MIKKO MARTIKKA	04/13/2021
ERIK LINDMAN	04/30/2021
OLLI-PEKKA KOISTINEN	04/20/2021

#### **RECEIVING PARTY DATA**

Name:	AMER SPORTS DIGITAL SERVICES OY
Street Address:	TAMMISTON KAUPPATIE 7B
City:	VANTAA
State/Country:	FINLAND
Postal Code:	01510

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17343913

#### **CORRESPONDENCE DATA**

Fax Number: (646)666-4316

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.

Phone: 571-281-4850 Email: posti@laineip.fi **Correspondent Name:** LAINE IP OY Address Line 1: PO BOX 339

Address Line 4: HELSINKI, FINLAND 00181

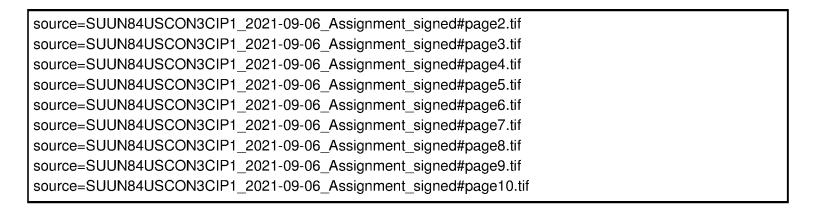
ATTORNEY DOCKET NUMBER:	SUUN 84 US CON 3 CIP 1
NAME OF SUBMITTER:	MATTHEW A. SWANSON
SIGNATURE:	/Matthew A. Swanson Reg. No. 73276/
DATE SIGNED:	09/06/2021

**Total Attachments: 10** 

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**PATENT** REEL: 057391 FRAME: 0221

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PATENT REEL: 057391 FRAME: 0222

# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### ASSIGNMENT

	Application No. 17/34	Application No. <u>17/343,913</u>		Filed: 2021-06-10	
Insert Name(s) of Inventor(s)	***((	Given Name FAMILY	NAME (ALL CAPS))***		
	WHEREAS,	HAPOLA, Tuomas NIEMINEN, Heikki MARTIKKA, Mikko LINDMAN, Erik KOISTINEN, Olli-P			
	(hereinafter designated	as the undersigned) has (	have) invented certain new a	and useful improvements in	
Insert Title of Invention	Method and system f	or determining a direc	tion of movement of an o	bject	
		on for Letters Patent of the case of a provisional		rica has been executed by the	3
Insert Date of Signing of Application	on_2021-04-30				_; and
Insert Name of Assignee	WHEREAS,	Amer Sports Digital	Services Oy	······	
Insert Address of Assignee	of Tammiston Kaup	patie 7B, 01510 Vanta	a, Finland		
CHECK BOX IF APPROPRIATE	acquiring the entire rigi	ht, title and interest in ar	d to said invention and in a	d as the Assignee) is desirous of and to any Letters Patent(s) that	
	or other previous agree valuable consideration, does sell, assign and tr United States of Americ in and to any and all L	d upon amount, the rece the undersigned has (he ransfer unto said Assigne ca, its territories, depende etters Patent(s) which ma	ipt of which is hereby acknown sold, assigned and trace the full and exclusive righteries and possessions and the granted therefore in the	to the undersigned in hand paid nowledged, and other good and nsferred, and by these presents ght to the said invention in the he entire right, title and interest ie United States of America, its gnated, in any and all foreign	d s e et s
	and to any and all divis terms for which the sam		ons, conversions and extens	ions thereof for the full term or	r

PATENT REEL: 057391 FRAME: 0223

MS/ rw

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Laine IP Oy

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Laine IP Oy the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 22/4/2021	Name of Inventor	(signature)	HAPOLA, Tuomas	
Date,	Name of Inventor	(signature)	NIEMINEN, Heikki	
Date	Name of Inventor	(signature)	MARTIKKA, Mikko	
Date,	Name of Inventor	(signature)	LINDMAN, Erik	
Date	Name of Inventor	(signature)	KOISTINEN, Olli-Pekka	***************************************
Date	Name of Inventor	(signature)		•
Date,	Name of Inventor	(signature)		
Laine IP Oy	2	/2		MS/ rw 03-2012

# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### ASSIGNMENT

	Application No. 17/34	¥3,913		Filed: 2021-06-10		
Insert Name(s) of Inventor(s)	***(€	Given Name FA	AMILY NAME (ALL	CAPS))***		
	WHEREAS,	HAPOLA, T NIEMINEN, MARTIKKA LINDMAN, KOISTINEN	Heikki a, Mikko Erik			
	(hereinafter designated	as the undersign	ed) has (have) invented o	certain new and useful improvements in		
Insert Title of Invention	Method and system f	or determining	g a direction of moven	nent of an object		
	for which an application undersigned (except in t			ates of America has been executed by the		
Insert Date of Signing of Application	on_2021-04-30			;	; and	
Insert Name of Assignee	WHEREAS,	Amer Sports	Digital Services Oy			
Insert Address of Assignee	of Tammiston Kaup	patie 7B, 0151	0 Vantaa, Finland			
CHECK BOX IF APPROPRIATE		ht, title and inter e in the United S	rest in and to said inven	er designated as the Assignee) is desirous of tion and in and to any Letters Patent(s) that		
	or other previous agree valuable consideration, does sell, assign and tr United States of Americ in and to any and all Laterritories, dependencies countries;	ed upon amount, the undersigne- ransfer unto said ca, its territories etters Patent(s) ves and possession	the receipt of which is d has (have) sold, assig d Assignee the full and dependencies and posse which may be granted the ons, and if the box ab	ars (\$10.00) to the undersigned in hand paid hereby acknowledged, and other good and med and transferred, and by these presents exclusive right to the said invention in the essions and the entire right, title and interest herefore in the United States of America, its love is designated, in any and all foreign		
	and to any and all divis terms for which the sam			is and extensions thereof for the full term or		

PATENT REEL: 057391 FRAME: 0225

MS/ rw

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Laine IP Oy

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Laine IP Oy the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Name of Inventor (signature) HAPOLA, Tuomas
Date <u>2021-04-28</u>	M. May land
Date,	Name of Inventor (signature) MARTIKKA, Mikko
Date,	Name of Inventor(signature) LINDMAN, Erik
Date	Name of Inventor (signature) KOISTINEN, Olli-Pekka
Date,	Name of Inventor(signature)
Date,	Name of Inventor(signature)
Laine IP Oy	MS/rw 2/2 03-2012

PATENT REEL: 057391 FRAME: 0226

# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### ASSIGNMENT

	Application No. 17/34	¥3,913		Filed: 2021-06-10		
Insert Name(s) of Inventor(s)	***(€	Given Name FA	AMILY NAME (ALL	CAPS))***		
	WHEREAS,	HAPOLA, T NIEMINEN, MARTIKKA LINDMAN, KOISTINEN	Heikki a, Mikko Erik			
	(hereinafter designated	as the undersign	ed) has (have) invented o	certain new and useful improvements in		
Insert Title of Invention	Method and system f	or determining	g a direction of moven	nent of an object		
	for which an application undersigned (except in t			ates of America has been executed by the		
Insert Date of Signing of Application	on_2021-04-30			;	; and	
Insert Name of Assignee	WHEREAS,	Amer Sports	Digital Services Oy			
Insert Address of Assignee	of Tammiston Kaup	patie 7B, 0151	0 Vantaa, Finland			
CHECK BOX IF APPROPRIATE		ht, title and inter e in the United S	rest in and to said inven	er designated as the Assignee) is desirous of tion and in and to any Letters Patent(s) that		
	or other previous agree valuable consideration, does sell, assign and tr United States of Americ in and to any and all Laterritories, dependencies countries;	ed upon amount, the undersigne- ransfer unto said ca, its territories etters Patent(s) ves and possession	the receipt of which is d has (have) sold, assig d Assignee the full and dependencies and posse which may be granted the ons, and if the box ab	ars (\$10.00) to the undersigned in hand paid hereby acknowledged, and other good and med and transferred, and by these presents exclusive right to the said invention in the essions and the entire right, title and interest herefore in the United States of America, its love is designated, in any and all foreign		
	and to any and all divis terms for which the sam			is and extensions thereof for the full term or		

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Laine IP Oy

PATENT REEL: 057391 FRAME: 0227

MS/ rw

The undersigned agree(x) in execute all papers occurries in connection with this application and any communing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications us the Assignment may down necessary or expedient.

The undersigned upone is to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reisons thereof or Letter Patent's) or reisons painti issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the luternational Convention for the Protection of Industrial Property or similar agreements.

The undersigned agreess) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America and any foreign parentle) in the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and emittely as the same would have been held by the undersigned if this Assignment and safe had not been made.

The undersigned benchy authorizers) and request(s) the Pascat and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Pascats resulting their said application or any continuing, divisional conversion or triveic applications thereof to the said Assigner, as Assigner of the entire interest, and hearly coversion, that he has other have the full right to convey the entire interest herein assigned, and that he has other have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants) the less lion of Laise IP Oy the power is insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark (Pfice for recordation of this document.

The undersigned hereby covenient(s) that no assignment, sale, agreement or ensumbrance has been or will be made or entend into which would conflict with this assignment.

In witness substitute a counted by the undersigned on the duters) appendic the undersigned name (4)

<b>XXX</b>	Name of investor (signature) HAPOLA, Transmix	~~~
X46	Name of inventor	,
me 12.4.2°21	Name of Inventor Coignature) MARTIKKA, Misko	•••
346	Name of inventor	ņ.
S88:	Name of inventor (signature) KOISTINEN, Olli-Pekka	
>**	Name of Inventor	2030
346	Name of inventor (signature)	
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PATENT REEL: 057391 FRAME: 0228

# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### ASSIGNMENT

	Application No. 17/34	<del>1</del> 3,913		Filed: 2021-06-10	
Insert Name(s) of Inventor(s)	***((	Given Name FAMIL	Y NAME (ALL CAI	PS))***	
	WHEREAS,	HAPOLA, Tuoma NIEMINEN, Heik MARTIKKA, Mik LINDMAN, Erik KOISTINEN, Olli	ki ko		
	(hereinafter designated	as the undersigned) ha	s (have) invented certai	in new and useful improvements in	
Insert Title of Invention	Method and system f	or determining a dir	ection of movement	of an object	
	for which an application undersigned (except in			of America has been executed by the	
Insert Date of Signing of Application	on_2021-04-30			;	and
Insert Name of Assignee	WHEREAS,	Amer Sports Digit	al Services Oy		
Insert Address of Assignee	of Tammiston Kaup	patie 7B, 01510 Var	itaa, Finland		
CHECK BOX IF APPROPRIATE		ht, title and interest in re in the United States	and to said invention.	signated as the Assignee) is desirous of and in and to any Letters Patent(s) that	
	or other previous agree valuable consideration, does sell, assign and tr United States of Americ in and to any and all L	ed upon amount, the re- the undersigned has ransfer unto said Assi- ca, its territories, depet etters Patent(s) which	eccipt of which is here (have) sold, assigned gnee the full and exchange idencies and possessionally be granted therefore	\$10.00) to the undersigned in hand paid oby acknowledged, and other good and and transferred, and by these presents asive right to the said invention in the ans and the entire right, title and interest ore in the United States of America, its is designated, in any and all foreign	
	and to any and all divis terms for which the sam		ations, conversions and	d extensions thereof for the full term or	

PATENT REEL: 057391 FRAME: 0229

MS/ rw

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Laine IP Oy

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignce may down necessary or expedient.

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The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(a) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	-		Name of Inventor		e 1		
				(signature)	HAPOLA, Tuomas		
Date			Name of Inventor			at jak	
				(signature)	NIEMINEN, Heikki		
Jate			Name of Inventor	, i	<u> </u>		
				(signature)	MARTIKKA, MIKKO LO LL	<b>\</b>	•
Date	30.04.2	021	Name of Inventor		0 44	- The state of the	
Cherrie			CHARGE OF ESTIGATOR	(signature)	LINDMAN, Erik		
Nate			Name of Inventor				
CANADAGE MICHAEL			Andrew St. And St.	(signature)	KOISTINEN, Olli-Pekks		•
Note			Name of Inventor				
P. 409-4		-		(signature)		ak dina pina dina dikana ai katalan ai katalan katalan kan dina dina dina dina dina dina dina di	
D.4.			77				
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# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### ASSIGNMENT

	Application No. 17/3	43,913		Filed: 2021-06-10	
Insert Name(s) of Inventor(s)	***((	Given Name FAMII	Y NAME (ALL CA	.PS))***	
	WHEREAS,	HAPOLA, Tuoma NIEMINEN, Heil MARTIKKA, Mil LINDMAN, Erik KOISTINEN, Oll	cki kko		
	Thereivefter designated	os the undersianed) ha	us (have) invented cert	ain new and useful improvements in	
¥ 4 F8304¥	(neremaner designated	as the undersigned) he	is (have) invented terr	am new and userui miprovements in	
Insert Title of Invention	Method and system i	for determining a di	rection of movemen	t of an object	
	for which an application undersigned (except in			s of America has been executed by the	
Insert Date of Signing of Application	on_2021-04-30			;	and
Insert Name of Assignee	WHEREAS,	Amer Sports Digit	al Services Oy		
Insert Address of Assignee	of Tammiston Kaup	patie 7B, 01510 Va	ntaa, Finland		
CHECK BOX IF APPROPRIATE	-	ht, title and interest in re in the United States	and to said inventior	designated as the Assignee) is desirous of a and in and to any Letters Patent(s) that	
	or other previous agree valuable consideration, does sell, assign and tr United States of Americ in and to any and all L	ed upon amount, the r the undersigned has ransfer unto said Assi ca, its territories, depe etters Patent(s) which	eceipt of which is he (have) sold, assigned gnee the full and exc ndencies and possessi may be granted there	(\$10.00) to the undersigned in hand paid reby acknowledged, and other good and and transferred, and by these presents clusive right to the said invention in the ions and the entire right, title and interest fore in the United States of America, its e is designated, in any and all foreign	
	and to any and all divis terms for which the san		nations, conversions an	nd extensions thereof for the full term or	

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Laine IP Oy

PATENT REEL: 057391 FRAME: 0231

MS/ rw

The undersigned agrees) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or prisate applications thereof and also to execute separate assignments in transcript with such applications as the Assignee may doen usees sary or expedient.

The undersigned agree (s) is execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or missue thereof or Letter Patentis) or reissue patent issued thereon and to consperate with the Assignee in every way possible in chaining and producing evidence and proceeding with such interference.

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The undersigned agree's) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America parent(s) as a grant of a valid United States of America and any fineign patent(s) to the Assignee and to year all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

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In witness whereof, expensed by the undersigned on the date(s) opposite the undersigned name(s).

Detic	Name of Inventor	(signature) HAPOLA, Tuomas	
Dats	Name of Tavestor	(signatura: NIEMINEN, Heikki	
Date	Name of Inventor	(signature) MARTIKKA, Mikko	
Date,	Name of Inventor	(signature) - LINDMAN, Ersk	
Desc. 04/20/2021	Name of Inventor	(Signature) KOISTINEN, OIII-Pekka	
Date	Name of Inventor	(signsum)	
Dáts	Name of Inventor	(signature:	
Lains IP Oy	2	1.86	18/ re -2012

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PATENT REEL: 057391 FRAME: 0232

RECORDED: 09/06/2021