PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6762903

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL SHEPPARD	08/31/2018
LUDO DAEMEN	12/12/2018
EDWARD MURPHY	09/18/2018
REMY SPOENTGEN	09/12/2018

RECEIVING PARTY DATA

Name:	THE NIELSEN COMPANY (US), LLC
Street Address:	85 BROAD STREET
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10004

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17167759

CORRESPONDENCE DATA

Fax Number: (312)580-9696

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: 3125801020

Email: MMENDOZA@HFZLAW.COM

Correspondent Name: HANLEY, FLIGHT & ZIMMERMAN LLC

Address Line 1: 150 S. WACKER DRIVE

Address Line 2: SUITE 2200

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER: 81173945US04			
NAME OF SUBMITTER:	SOPHIA P. PILIPCHUK		
SIGNATURE:	/Sophia P. Pilipchuk/		
DATE SIGNED:	06/15/2021		
	This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 6

PATENT REEL: 056549 FRAME: 0935

506716085

PATENT REEL: 056549 FRAME: 0936

ASSIGNMENT

Serial No: 62/685,741 Serial No: 62/686,499 Serial No: 16/219,524
Filed: June 15, 2018 Filed: June 18, 2018 Filed: December 13, 2018

Title: DETERMINING CAUSAL EFFECTS FOR AUDIENCE MEASUREMENT FIELD OF

THE DISCLOSURE

For good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned Assignor(s) hereby assign to The Nielsen Company (US), LLC, a Delaware Limited Liability Company, 85 Broad Street, New York, New York 10004, United States of America, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention(s) and/or improvements of the undersigned disclosed in the application for Patent identified above, and in said application and any and all other applications, United States, international and/or foreign, which the undersigned Assignor(s) or the Assignee may file, either solely or jointly with others, on said invention(s) and/or improvements, and in any and all Patent(s), which may be obtained on any of said application(s) anywhere in the world, and in any reissue(s) or extension(s) thereof. This assignment includes all rights associated with said application(s) and the underlying inventions including, without limitation, all patent right(s) in any and all countries and all right(s) to claim priority to and/or from said application(s) in any and all countries. No rights whatsoever are reserved to the undersigned Assignor(s), but instead all rights are hereby transferred to the Assignee and the Assignee hereby accepts all such rights. This assignment is governed by the Law of the State of Illinois, United States of America without regard to its choice of law provisions.

The undersigned Assignor(s) hereby authorize and request the Commissioner of Patents and Trademarks of the United States Patent and Trademark Office to issue any said Letters Patent(s) of the United States to said Assignee.

The undersigned Assignor(s) hereby authorize and request the appropriate governmental official(s) of the appropriate foreign patent Office(s) to issue any said foreign Patent(s) to said Assignee.

The undersigned Assignor(s) hereby authorize and request the attorneys of record in said application(s) to insert in this assignment the execution date and/or filing date and serial number of any such application(s) when officially known.

The undersigned Assignor(s) warrant themselves to be the owner of the interest(s) herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest(s) herein assigned.

For said consideration the undersigned Assignor(s) hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all international,

divisional, continuation, continuation-in-part and substitute applications for said invention(s) or improvements, and any necessary oath or affidavit relating thereto, and any application(s) for the reissue or extension of any Letters Patent that may be granted upon said application(s), and any and all application(s) and other documents for Patent in foreign countries on said invention(s) or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned Assignor(s) further agree upon the request of said Assignee, its successors or assigns, in the event of any application(s) or Patent(s) assigned herein become involved in Interference, to cooperate to the best of the ability of the undersigned Assignor(s) with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned Assignor(s) hereby agree to perform, upon request, any and all affirmative acts to obtain said Patent(s), both United States and foreign, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said Patent(s) will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said Patent(s) may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

Assignor(s)

WITNESS my hand this 3/ day of

Assignor(s)

Assignor(s)
WITNESS my hand this 12 day of December 2018

Ludo Daemen

Assignor(s)

WITNESS my hand this 1844

oy of Sendonbar , ?

Edward Murphy

* * * * * *

Assignor(s)			
WITNESS my hand this_	12	day of <u>Soptember</u>	, 2018.
		Ri Ota	
		Remy Spoentgen	

* * * * *

- 7%	CLEASE AND 15	620
73	<u>ssigne</u>	τ.

WITNESS my hand this 15th day of January , 2021

Sal Karottki

Senior Vice President and Intellectual Property Counsel On behalf of The Nielsen Company (US), LLC

* * * * *