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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BALACHANDER SHANKAR	10/06/2020
SHUANGXING CHEN	10/26/2018
JOHN CHARLES COUGHLIN	09/28/2018
CHRISTINE V. HEISS	10/05/2018
DAVID J. KURZYNSKI	10/03/2018
SAMANTHA M. MOWRER	10/01/2018
RACHEL WORTH OLSON	09/27/2018
MOLLY POPPIE	09/26/2018
PAUL CHIMENTI	09/27/2018
REMY SPOENTGEN	01/02/2019
JONATHAN SULLIVAN	01/06/2019

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: 2

Property Type	Number
Application Number:	62681489
Application Number:	16152115

CORRESPONDENCE DATA

(312)580-9696 Fax Number:

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: nbetancourt@hfzlaw.com

Correspondent Name: HANLEY, FLIGHT & ZIMMERMAN, LLC

Address Line 1: 150 S. WACKER DRIVE

Address Line 2: **SUITE 2200**

REEL: 054000 FRAME: 0379 506293068

PATENT -

Address Line 4: CHIC	CHICAGO, ILLINOIS 60606	
ATTORNEY DOCKET NUMBER:	20004/81165440US02	
NAME OF SUBMITTER:	WILLIAM E. JACKLIN	
SIGNATURE:	/William E. Jacklin/	
DATE SIGNED:	10/07/2020	

Total Attachments: 12

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PATENT REEL: 054000 FRAME: 0380

ASSIGNMENT

Serial No: 62/681,489 16/152,115 Filed: June 6, 2018 October 04, 2018

Title: METHODS AND APPARATUS TO CALIBRATE

RETURN PATH DATA FOR AUDIENCE

MEASUREMENT

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

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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 6th	day of October	, 2020
	S Bala chande	
	Balachander Shankar	

Assignor(s)

WITNESS my hand this ____

26

day of October, 2018

Shuangxing Chen

Assignor(s)		
WITNESS my hand this	day of	
	Sohn Charles Coughlin	

Assignor(s)

WITNESS my hand this

dov of

Christine V. Heiss

* * * * *

Page 11 of 13

Assignor(s)

day of October, 2

David J. Kurzynski

Assignor(s)

Sammiha M. Mowrer

Assignor(s)

WITNESS my hand this 27+4

day of

20/8

Rachel Worth Olson

Assignor(s)

Assignor(s)				
WITNESS my hand this	27th	day of	September	, <u>20</u> 18
		BUL	3	
	-	Paul Chime	enti	
		* * * * *	k	

Assignor(s)

WITNESS my hand this <u>second</u> day of <u>Jansery</u>, 19.

Remy Spoentgen

 $\underline{Assignor(s)}$

WITNESS my hand this _

Jonathan Sullivan