504682643 12/12/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4729365

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| NIELSEN AUDIO, INC. | 06/16/2014 |

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: | 15799620 |

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: wjacklin@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: | 20271/ARB151US04 |
|-------------------------|----------------------|
| NAME OF SUBMITTER: | WILLIAM E. JACKLIN |
| SIGNATURE: | /William E. Jacklin/ |
| DATE SIGNED: | 12/12/2017 |

Total Attachments: 28

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PATENT REEL: 044837 FRAME: 0868

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Nielsen Audio, Inc., a Delaware Corporation, having a place of business at 85 Broad Street, New York, New York, 10004, (hereinafter "Assignor") hereby assigns to The Nielsen Company (US), LLC., a Delaware Limited Liability Company, having a place of business at 150 North Martingale Road, Schaumburg, Illinois 60173, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the assets identified in the attached schedule. For avoidance of doubt, this assignment conveys all invention(s) and/or improvement(s) anywhere in the world, all pending patent application(s) and/or all patent(s) that issue or have issued therefrom anywhere in the world, all expired application(s) filed anywhere in the world, and all issued patent(s) anywhere in the world including any continuances, reissues and/or extensions thereof. The conveyance is inclusive of all priority rights, all international patent applications, all patent applications filed in or to be filed in any country in the world, all patents issued or to be issued in any country in the world, and all reissue(s) and/or extension(s) thereof. This assignment includes all rights associated with said assets including, without limitation, all patent right(s) in any and all countries and all right(s) to claim priority to and/or from any application(s) or patent(s) in any and all countries. No rights whatsoever are reserved to the undersigned assignor, but instead all rights are hereby transferred to the Assignee. assignment is governed by the Law of the State of Illinois, United States of America.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

| WITNESS my hand this 16th | _day of | June 2014. |
|----------------------------|---------|---|
| On Behalf of the Assignor: | | Nielsen Audio, Inc. |
| | By: | Gent Potkay Senior Vice President-Intellectual Property |
| On Behalf of the Assignee: | | School exertesident michectual ryopeny |
| | ву: | The Nielsen Company (US), LLC. Control of Law GenelPorkay Senior Vice President, Intellectual Property |

SCHEDULE A

| Atty. Docket No. | Country | Serial No. | Filing Date | Title |
|------------------|---------------|------------|--------------------|--|
| 20271/ARB151US02 | United States | 60/886,615 | January 25, 2007 | RESEARCH DATA GATHERING WITH MULTI- MODE AND/OR MULTI- PROCESSING |
| 20271/ARB151US01 | United States | 60/897,349 | January 25, 2007 | RESEARCH DATA GATHERING WITH MULTI- MODE AND/OR MULTI- PROCESSING |
| 20271/ARB166US01 | United States | 60/978,117 | October 6, 2007 | GATHERING RESEARCH DATA |
| 20271/ARB156US01 | United States | 60/857,714 | November 7, 2006 | RESEARCH DATA GATHERING WITH A PORTABLE MONITOR AND A STATIONARY DEVICE |
| 20271/ARB120US01 | United States | 60/554,560 | March 19, 2004 | GATHERING DATA CONCERNING PUBLICATION USAGE |
| 20271/ARB131US01 | United States | 60/631,480 | November 29, 2004 | SYSTEMS AND PROCESSES FOR INTEGRATING DATA FOR CONSUMER BEHAVIOR MEASUREMENT |
| 20271/ARB120US00 | United States | 60/562,907 | April 15, 2004 | GATHERING DATA CONCERNING PUBLICATION USAGE AND EXPOSURE TO PRODUCTS AND/OR PRESENCE IN COMMERCIAL ESTABLISHMENT |
| 20271/ARB148US01 | United States | 60/831,744 | July 12, 2006 | METHODS AND SYSTEMS FOR COMPLIANCE CONFIRMATION AND INCENTIVES |
| 20271/ARB165US00 | United States | 60/947,288 | June 29, 2007 | RESOURCE EFFICIENT RESEARCH DATA GATHERING USING PORTABLE MONITORING DEVICES |
| 20271/ARB127US01 | United States | 60/607,084 | September 3, 2004 | OUT-OF-HOME ADVERTISING INVENTORY RATINGS METHODS AND SYSTEMS |
| 20271/ARB289US01 | United States | 13/725,021 | December 21, 2012 | AUDIO DECODING WITH SUPPLEMENTAL SEMANTIC AUDIO RECOGNITION AND REPORT GENERATION |
| 20271/ARB287US01 | United States | 13/724,836 | December 21, 2012 | AUDIO PROCESSING TECHNIQUES FOR SEMANTIC AUDIO RECOGNITION AND REPORT GENERATION |
| 20271/ARB288US01 | United States | 13/725,004 | December 21, 2012 | AUDIO MATCHING WITH SEMANTIC AUDIO RECOGNITION AND REPORT GENERATION |
| 20271/ARB295US01 | United States | 13/955,163 | July 31, 2013 | SYSTEMS APPARATUS AND METHODS FOR DETERMINING COMPUTER APPARATUS USAGE VIA PROCESSED VISUAL INDICIA |
| 20271/ARB297US01 | United States | 13/955,245 | July 31, 2013 | SYSTEMS, APPARATUS AND METHODS FOR ENCODING/DECODING PERSISTENT UNIVERSAL MEDIA CODES TO ENCODED AUDIO |
| 20271/ARB298US01 | United States | 13/955,438 | July 31, 2013 | APPARATUS, SYSTEM AND METHOD FOR READING CODES FROM DIGITAL AUDIO ON A PROCESSING DEVICE |
| 20271/ARB298US02 | United States | 14/023,226 | September 10, 2013 | APPARATUS, SYSTEM AND METHOD FOR MERGING CODE LAYERS FOR AUDIO ENCODING |

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| | | 1 | <u> </u> | AND DECODING AND |
|----------------------|--------------------------|-----------------|--------------------|---|
| | | | | AND DECODING AND ERROR CORRECTION THEREOF |
| 20271/ARB026US01 | United States | 07/936,111 | August 27, 1992 | METHOD AND |
| | | | | APPARATUS FOR AUTOMATICALLY |
| | | | | IDENTIFYING A PROGRAM |
| | | | | INCLUDING A SOUND SIGNAL |
| 20271/ARB027US01 | United States | 07/976,558 | November 16, 1992 | METHOD AND |
| | | | | APPARATUS FOR ENCODING/DECODING |
| | | | | BROADCAST OR RECORDED SEGMENTS |
| | | | | AND MONITORING |
| | | | | AUDIENCE EXPOSURE THERETO |
| 20271/ARB044US01 | United States | 09/956,368 | September 19, 2001 | MONITORING USAGE OF |
| | | | | MEDIA DATA WITH NON- PROGRAM DATA |
| 20271 /A DD 00011G01 | II 's 1 Cr | 10/220 070 | D 1 17 2002 | ELIMINATION ASSEMBLY FOR MAKING |
| 20271/ARB098US01 | United States | 10/320,879 | December 17, 2002 | AN ELECTRICAL |
| | | | | CONNECTION BETWEEN COMPONENTS |
| 20271/ARB149US01 | United States | 60/751,825 | December 20, 2005 | METHODS AND SYSTEMS |
| | | | | FOR SELLING UP, PROMOTING, OPERATING, |
| | | | | MAINTAINING, AND/OR TERMINATING A |
| | | | | RESEARCH OPERATION |
| 20271/ARB250US01 | United States | 61/045,827 | April 17, 2008 | CROSS-MEDIA INTERACTIVITY METRICS |
| 20271/ARB279US01 | United States | 13/341,272 | December 30, 2011 | APPARATUS, SYSTEM AND METHOD FOR |
| | | | | ACTIVATING FUNCTIONS |
| | | | | IN PROCESSING DEVICES USING ENCODED AUDIO |
| 20271/4 DD 2021/001 | 11.1.10 | 12/241 112 | D 1 20 2011 | AND AUDIO SIGNATURES |
| 20271/ARB282US01 | United States | 13/341,113 | December 30, 2011 | SYSTEM AND METHOD FOR DETERMINING |
| | | | | DEVICE COMPLIANCE AND RECRUITMENT |
| 20271/ARB292US01 | United States | 13/729,700 | December 28, 2012 | AUDIENCE |
| | | | | MEASUREMENT SYSTEM, METHOD AND |
| | | | | APPARATUS WITH GRIP SENSING |
| 20271/ARB294US01 | United States | 13/731,882 | December 31, 2012 | APPARATUS, SYSTEM |
| | | | | AND METHODFOR LOCATION DETECTION |
| | | | | AND USER IDENTIFICATION FOR |
| | | | | MEDIA EXPOSURE DATA |
| 20271/ARB299US01 | United States | 14/023,221 | September 10, 2013 | APPARATUS, SYSTEM AND METHOD FOR |
| | | | | MERGING CODE LAYERS |
| | | | | FOR AUDIO ENCODING AND DECODING |
| 20271/ARB200US01 | United States | 61/009,801 | December 31, 2007 | SURVEY DATA ACQUISITION |
| 20271/ARB010AU01 | Australia | 1991080888.00 | May 21, 1991 | NON-OBTRUSIVE PROGRAMMING MONITOR |
| 20271/ARB010CA01 | Canada | 2042832.00 | May 17, 1991 | NON-OBTRUSIVE PROGRAMMING MONITOR |
| 20271/ARB010EP01 | European Patent | 91910747.40 | May 21, 1991 | NON-OBTRUSIVE |
| 20271/ARB010GB01 | Convention Great Britain | 91910747.40 | May 21, 1991 | PROGRAMMING MONITOR NON-OBTRUSIVE |
| | | | - | PROGRAMMING MONITOR |
| 20271/ARB010JP01 | Japan | 1991-0510637 | May 21, 1991 | NON-OBTRUSIVE PROGRAMMING MONITOR |
| 20271/ARB010PL01 | Poland | 333769.00 | May 21, 1991 | NON-OBTRUSIVE PROGRAMMING MONITOR |
| 20271/ARB010US01 | United States | 7526103.00 | May 21, 1990 | NON-OBTRUSIVE PROGRAMMING MONITOR |
| 20271/ARB010WO01 | Patent | PCTUS1991003581 | May 21, 1991 | NON-OBTRUSIVE PROGRAMMING MONITOR |
| | Cooperation Treaty | | | |
| 20271/ARB011AU01 | Australia | 19890029742.00 | February 8, 1989 | DISTRIBUTED MONITORING SYSTEM |
| | | 1 | | MONITORING SYSTEM |

| 20271/ARB011CA01 | Canada | 582933.00 | November 14, 1988 | DISTRIBUTED MONITORING SYSTEM |
|--------------------|-------------------------------|----------------|-------------------|--|
| 20271/ARB011JP01 | Japan | 19880332794.00 | December 28, 1988 | DISTRIBUTED MONITORING SYSTEM |
| 20271/ARB011US01 | United States | 7183113.00 | April 19, 1988 | DISTRIBUTED MONITORING SYSTEM |
| 20271/ARB012US01 | United States | 7265831.00 | November 1, 1988 | ELECTRONIC DATA ENCODING AND |
| 20271/100001211101 | | 10070072427.00 | 1 1007 | RECOGNITION SYSTEM |
| 20271/ARB013AU01 | Australia | 19870072437.00 | May 1, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013CA01 | Canada | 536107.00 | April 30, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013DE01 | Germany | P3750437.1 | May 1, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013EP01 | European Patent Convention | 87303968.90 | May 1, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013FR01 | France | 87303968.90 | May 1, 1987 | METHOD, APPARATUS AND SYSTEM FOR |
| | | | | RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013GB01 | Great Britain | 87303968.90 | May 1, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013IT01 | Italy | 87303968.90 | May 1, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013JP01 | Japan | 62-109631 | August 2, 1987 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013JP02 | Japan | 4-219415 | August 18, 1992 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013JP03 | Japan | 4-219416 | August 18, 1992 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB013US01 | United States | 6859134.00 | May 2, 1986 | METHOD, APPARATUS AND SYSTEM FOR RECOGNIZING BROADCAST SEGMENTS |
| 20271/ARB014AT01 | Austria | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014AT02 | Austria | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014AU01 | Australia | 19840036049.00 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014BE01 | Belgium | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014BE02 | Belgium | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014BR01 | Brazil | PI8406285 | December 7, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014CH01 | Switzerland | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| | | | | SYSTEM AND METHOD |

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|--|------------------|---------------|----------------|-------------------|--|
| 20271/ARB014DE01 Germany P3484979.3 November 30, 1984 TELEFUSION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD DATA COLLECTION SYSTEM AND METHOD SYSTEM AND METHOD DATA COLLECTION SYSTEM AND METHOD SYSTEM AND METHOD DATA COLLECTION SYSTEM AND METHOD SYSTEM AND METHOD DATA COLLECTION SYSTEM AND METHOD SYSTEM AND METHOD DATA COLLECTION SYSTEM AND METHOD S | 20271/ARB014CH02 | Switzerland | 90120554.20 | November 30, 1984 | DATA COLLECTION |
| 2027I/ARB014EP01 European Patent Convention European Patent Convention S4114542.80 November 30, 1984 MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD SYSTEM AND | 20271/ARB014DE01 | Germany | P3484979.3 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014EP01 | 20271/ARB014DE02 | Germany | P3486466.0 | November 30, 1984 | TELEVISION AND MARKET RESEARCH |
| 20271/ARB014FR01 | 20271/ARB014EP01 | | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014FR01 | 20271/ARB014EP02 | | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014FR02 | 20271/ARB014FR01 | France | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014GB01 Great Britain S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014GB02 Great Britain 90120554.20 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014IT01 Italy S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014IT02 Italy 90120554.20 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014KR01 Korea South 19840007778.00 December 8, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014LU01 Luxembourg S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014LU02 Luxembourg 90120554.20 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014MX01 Mexico MX19840203637 December 7, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014MX01 Netherlands S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014MX01 Netherlands S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014MX01 Netherlands S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014MX01 Netherlands S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 Sweden S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 Sweden S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 Sweden S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 Sweden S4114542.80 November 30, 1984 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 MRERER BESARCII DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE01 MRERER BESARCII DATA COLLECTION SYSTEM AND METH | 20271/ARB014FR02 | France | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014IT01 | 20271/ARB014GB01 | Great Britain | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014IT01 | 20271/ARB014GB02 | Great Britain | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014KR01 | 20271/ARB014IT01 | Italy | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014LU01 | 20271/ARB014IT02 | Italy | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| Market research Data Collection System and Method | 20271/ARB014KR01 | Korea South | 19840007778.00 | December 8, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD | 20271/ARB014LU01 | Luxembourg | 84114542.80 | November 30, 1984 | MARKET RESEARCH DATA COLLECTION |
| December 7, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD | 20271/ARB014LU02 | Luxembourg | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| November 30, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD SYSTEM SYSTEM AND METHOD SYSTEM | 20271/ARB014MX01 | Mexico | MX19840203637 | December 7, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| November 30, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD | 20271/ARB014NL01 | Netherlands | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014SE01 Sweden 84114542.80 November 30, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD 20271/ARB014SE02 Sweden 90120554.20 November 30, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD 20271/ARB014TW01 Taiwan 8415113.00 December 7, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD 20271/ARB014US01 United States 6502654.00 June 9, 1983 TELEVISION VIEWER DATA COLLECTION | 20271/ARB014NL02 | Netherlands | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014SE02 Sweden 90120554.20 November 30, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD 20271/ARB014TW01 Taiwan 8415113.00 December 7, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD 20271/ARB014US01 United States 6502654.00 June 9, 1983 TELEVISION VIEWER DATA COLLECTION | 20271/ARB014SE01 | Sweden | 84114542.80 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014TW01 Taiwan 8415113.00 December 7, 1984 TELEVISION AND MARKET RESEARCH DATA COLLECTION SYSTEM AND METHOD 20271/ARB014US01 United States 6502654.00 June 9, 1983 TELEVISION VIEWER DATA COLLECTION | 20271/ARB014SE02 | Sweden | 90120554.20 | November 30, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| 20271/ARB014US01 United States 6502654.00 June 9, 1983 TELEVISION VIEWER DATA COLLECTION | 20271/ARB014TW01 | Taiwan | 8415113.00 | December 7, 1984 | TELEVISION AND MARKET RESEARCH DATA COLLECTION |
| Dogo 4 of 27 | 20271/ARB014US01 | United States | | June 9, 1983 | TELEVISION VIEWER |

| | | | T | SYSTEM |
|-------------------------|-----------------------|-----------------|--------------------|---|
| 20271/ARB014US02 | United States | 6658378.00 | October 5, 1984 | TELEVISION AND MARKET RESEARCH |
| | | | | DATA COLLECTION |
| 20271/ARB014US03 | United States | 6559459.00 | December 8, 1983 | SYSTEM AND METHOD TELEVISON AND MARKET |
| 2027 17 17 12 01 10 200 | | | 2555111651 6, 1766 | RESEARCH DATA COLLECTION SYSTEM |
| | | | | AND METHOD |
| 20271/ARB014US04 | United States | 7036861.00 | April 10, 1987 | TELEVISION AND MARKET RESEARCH |
| | | | | DATA COLLECTION SYSTEM AND METHOD |
| 20271/ARB014ZA01 | South Africa | 849435.00 | December 4, 1984 | TELEVISION AND |
| | | | | MARKET RESEARCH DATA COLLECTION |
| 20271/ARB015CA01 | Canada | 451975.00 | A: 1 12 1004 | SYSTEM AND METHOD METHOD AND |
| 20271/ARBUISCAUI | Canada | 431973.00 | April 13, 1984 | APPARATUS FOR |
| | | | | DETECTING THE CHANNEL TO WHICH AN |
| | | | | ELECTRONIC RECEIVER |
| 20271/ARB015CA02 | Canada | 599743.00 | May 15, 1989 | SYSTEM IS TUNED METHOD AND |
| | | | | APPARATUS FOR DETECTING THE |
| | | | | CHANNEL TO WHICH AN |
| | | | | ELECTRONIC RECEIVER SYSTEM IS TUNED |
| 20271/ARB015CA03 | Canada | 599744.00 | May 15, 1989 | METHOD AND APPARATUS FOR |
| | | | | DETECTING THE |
| | | | | CHANNEL TO WHICH AN ELECTRONIC RECEIVER |
| 20271/ARB015JP01 | Japan | 19840074803.00 | April 13, 1984 | SYSTEM IS TUNED METHOD AND |
| 2027 I/AKB013JF01 | зарап | 19840074803.00 | April 13, 1964 | APPARATUS FOR |
| | | | | DETECTING THE CHANNEL TO WHICH AN |
| | | | | ELECTRONIC RECEIVER SYSTEM IS TUNED |
| 20271/ARB016CA01 | Canada | 522528.00 | November 10, 1986 | METER FOR PASSIVELY LOGGING THE PRESENCE |
| | | | | AND IDENTITY OF TV VIEWERS |
| 20271/ARB016US01 | United States | 6797344.00 | November 12, 1985 | METER FOR PASSIVELY LOGGING THE PRESENCE |
| | | | | AND IDENTITY OF TV |
| 20271/ARB017CA01 | Canada | 522531.00 | November 10, 1986 | VIEWERS METHOD FOR POLLING |
| 202717111001701101 | | 322331.00 | 1,0,0,0,0 | HEADPHONES OF A PASSIVE TV AUDIENCE |
| | | | | METER SYSTEM |
| 20271/ARB018CA01 | Canada | 519368.00 | September 30, 1986 | VIDEO CASSETTE RECORDER ADAPTER |
| 20271/ARB019US01 | United States | 6589629.00 | March 15, 1984 | TELEVISION MONITORING DEVICE |
| 20271/ARB020CA01 | Canada | 504864.00 | March 24, 1986 | CABLE SENSOR FOR SENSING A DC SIGNAL |
| 20271/4 DE 221 C 4 21 | | 540517.00 | 1 25 1007 | FROM A CABLE HEADEND |
| 20271/ARB021CA01 | Canada | 540517.00 | June 25, 1987 | AUDIENCE MONITORING SYSTEM |
| 20271/ARB022US01 | United States | 7186602.00 | April 27, 1988 | MODEM RINGING SUPPRESSION CIRCUIT |
| 20271/ARB024AU01 | Australia | 199342260.00 | April 30, 1993 | METHOD AND SYSTEM FOR RECOGNITION OF |
| 20271/ARB024AU02 | Australia | 199734272.00 | August 19, 1997 | BROADCAST SEGMENTS METHOD AND SYSTEM |
| 2021111111002411002 | 1 tabaana | 199131212.00 | 1146401 17, 1771 | FOR RECOGNITION OF BROADCAST SEGMENTS |
| 20271/ARB024AU03 | Australia | 2000047161.00 | July 12, 2000 | METHOD AND SYSTEM |
| | | <u> </u> | | FOR RECOGNITION OF BROADCAST SEGMENTS |
| 20271/ARB024JP01 | Japan | 51954093.00 | April 30, 1993 | METHOD AND SYSTEM FOR RECOGNITION OF |
| | | | | BROADCAST SEGMENTS |
| 20271/ARB024WO01 | Patent Cooperation | PCTUS1993004082 | April 30, 1993 | METHOD AND SYSTEM FOR RECOGNITION OF |
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| 20271/ARB026CA01 | Canada | 2079260.00 | September 28, 1992 | METHOD AND APPARATUS FOR AUTOMATICALLY IDENTIFYING A PROGRAMINCLUDING A SOUND SIGNAL |
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| 20271/ARB027AU01 | Australia | 1994058689.00 | November 16, 1993 | METHOD AND APPARATUS FOR ENCODING/DECODING BROADCAST OR RECORDED SEGMENTS AND MONITORING AUDIENCE EXPOSURE THERETO |
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| 20271/ARB027DE02 | Germany | 4077802.90 | November 16, 1993 | METHOD AND APPARATUS FOR ENCODING/DECODING BRODCAST OR RECORDED SEGMENTS AND MONITORING AUDIENCE EXPOSURE THERETO |
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| 20271/ARB027FR02 | France | 4077802.90 | November 16, 1993 | METHOD AND APPARATUS FOR ENCODING/DECODING BRODCAST OR RECORDED SEGMENTS AND MONITORING AUDIENCE EXPOSURE THERETO |
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| 20271/ARB027IT02 | Italy | 4077802.90 | November 16, 1993 | METHOD AND APPARATUS FOR ENCODING/DECODING BRODCAST OR RECORDED SEGMENTS AND MONITORING AUDIENCE EXPOSURE THERETO |
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| 20271/ARB027PT01 | Portugal | 94904801.10 | November 16, 1993 | METHOD AND APPARATUS FOR ENCODING/DECODING BROADCAST OR RECORDED SEGMENTS AND MONITORING AUDIENCE EXPOSURE THERETO |
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