

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EXFO SOLUTIONS SAS	12/20/2023
RECEIVING PARTY DATA	
Name:	EXFO INC.
Street Address:	400, AVE GODIN
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State/Country:	CANADA
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PROPERTY NUMBERS Total: 13	
Property Type	Number
Patent Number:	11025782
Patent Number:	11388040
Patent Number:	11736339
Patent Number:	11645293
Patent Number:	11132109
Patent Number:	11138163
Application Number:	17721420
Patent Number:	11416582
Patent Number:	11416504
Patent Number:	11522766
Application Number:	17832891
Application Number:	18353227
Application Number:	18076502
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NAME OF SUBMITTER:	LAWRENCE A. BARATTA, JR.
SIGNATURE:	/Lawrence A. Baratta, Jr./
DATE SIGNED:	12/21/2023
Total Attachments: 5 source=PRV-042 Solutions to Inc Assignment#page1.tif source=PRV-042 Solutions to Inc Assignment#page2.tif source=PRV-042 Solutions to Inc Assignment#page3.tif source=PRV-042 Solutions to Inc Assignment#page4.tif source=PRV-042 Solutions to Inc Assignment#page5.tif	

ASSIGNMENT OF INVENTION – UNIVERSAL (All rights and all countries)

Whereas, the following ASSIGNOR listed under ASSIGNOR name, and its heirs, legal representatives and assigns (hereinafter collectively referred to as "ASSIGNOR")

ASSIGNOR name	ASSIGNOR address
EXFO Solutions SAS	2 rue Jacqueline Auriol, Saint-Jacques de la Lande, 35136, FRANCE

has either the entire right, title and interest or a portion of the right, title and interest in certain new and useful improvements in the inventions listed in the Appendix (hereinafter the "INVENTIONS") and which are the subject of the patent application(s) and Letters Patents also listed in the Appendix and related patent application(s) and Letters Patent(s), the contents of which are hereby incorporated by reference in their entirety,

WHEREAS, the following ASSIGNEE listed under ASSIGNEE name, and its successors, assigns or legal representatives (hereinafter collectively referred to as the "ASSIGNEE")

ASSIGNEE name	ASSIGNEE address
EXFO Inc.	400, Ave Godin, Quebec, QC, G1M 2K2, CANADA

is desirous of acquiring the entire right, title and interest in and to said INVENTIONS, in and to said patent applications and any Letters Patents that may issue thereon, and in and to said Letters Patents set forth in the Appendix held by ASSIGNOR;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR

- ☐ hereby assigns, vests and transfers
☒ confirms such assignment, vesting or transfer effective **2023-12-18**
☐ confirms that effective the date of invention, we did assign, vest and transfer, by virtue of a contract or agreement entered into prior to making the INVENTIONS,

to said ASSIGNEE, ASSIGNOR's entire and exclusive right, title and interest or ASSIGNOR's portion of the right, title and interest in and to said INVENTIONS and improvements and to all Letters Patent or similar legal protections to be obtained for said INVENTIONS owned by ASSIGNOR in Canada, the United States, Europe and everywhere else throughout the world, including all divisions, continuations, renewals, reissues, substitutes, reexaminations, continuations-in-part and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, and the right to claim priority based on the filing date of said application(s) and based on the filing date of any provisional application of which said application(s) claims the benefit under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.

ASSIGNOR authorizes ASSIGNEE to apply in all countries in ASSIGNOR's name or in ASSIGNEE's own name for patents and like rights of exclusion and for inventor's certificates for said INVENTIONS.

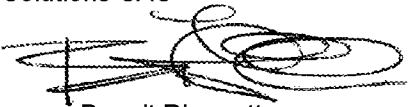

Initials	
ASSIGNOR	ASSIGNEE
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ASSIGNOR further agrees, upon request by ASSIGNEE, to promptly provide ASSIGNEE, without further compensation, with all pertinent facts and documents relating to said INVENTIONS or patent application(s) as may be known and accessible to ASSIGNOR, to testify in any interference, opposition, litigation, or similar proceedings related to said INVENTIONS or application(s), to sign such further requests, applications, assignments, declarations, papers, instruments, affidavits, preliminary statements and other necessary documents as the ASSIGNEE may reasonably request to fully effectuate this Assignment and to execute any other papers that may be needed in connection with filing and prosecuting said application(s) and securing Letters Patents thereon.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents, or any competent authority to issue patents, to issue Letters Patent on said application(s), and on any and all divisions, continuations, renewals, reissues, reexaminations, continuations-in-part and extensions thereof to ASSIGNEE in accordance herewith.

ASSIGNOR hereby authorizes the insertion on this Assignment of the serial number(s) and filing date(s) of said application(s) when known.

IN WITNESS WHEREOF, we have hereunto set hand and signed on the date indicated below:

ASSIGNOR Signature EXFO Solutions SAS By: 	ASSIGNEE Signature EXFO Inc. By: 
Full name: Benoit Ringuette Title: Authorized Signatory	Full name: Benoit Ringuette Title: General Counsel and Corporate Secretary
Date : 2023-12-20	Date : 2023-12-20

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Appendix. Listing of INVENTIONS, including currently pending patent application(s) and granted Letters Patent(s)

Country/Region	Application No.	Filing Date (MM/DD/YYYY)	Title
Germany - (DE)	60 2019 013 045.7	12/11/2019	End-To-End Session-Related Call Detail Record
France - (FR)	19215275.9	12/11/2019	End-To-End Session-Related Call Detail Record
Great Britain - (GB)	19215275.9	12/11/2019	End-To-End Session-Related Call Detail Record
United States - (US)	16/708,904	12/10/2019	End-To-End Session-Related Call Data Record
Germany - (DE)	602019005918.3	10/24/2019	Automatische Grundursachendiagnose In Netzwerken
Germany - (DE)	21159936.0	10/24/2019	Automatic Root Cause Diagnosis In Networks
France - (FR)	19205083.9	10/24/2019	Diagnostic Automatique De Causes Profondes Dans Des Reseaux
France - (FR)	21159936.0	10/24/2019	Automatic Root Cause Diagnosis In Networks
Great Britain - (GB)	19205083.9	10/24/2019	Automatic Root Cause Diagnosis In Networks
Great Britain - (GB)	21159936.0	10/24/2019	Automatic Root Cause Diagnosis In Networks
United States - (US)	16/659,874	10/22/2019	Automatic Root Cause Diagnosis In Networks
United States - (US)	17/835,467	6/8/2022	Automatic Root Cause Diagnosis In Networks
United States - (US)	16/708,605	12/10/2019	Anomaly Detection In Big Data Time Series Analysis
European Patent Convention - (EP)	20187685.1	7/24/2020	Timeline Visualization & Investigation Systems And Methods For Time Lasting Events
United States - (US)	16/869,817	5/8/2020	Timeline Visualization And Investigation Systems And Methods For Time Lasting Events
United States - (US)	16/669,033	10/30/2019	Automatic Root Cause Diagnosis In Networks Based On Hypothesis Testing

Initials
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Country/Region	Application No.	Filing Date (MM/DD/YYYY)	Title
European Patent Convention - (EP)	22169188.4	4/21/2022	Injecting Analytics Into Network Repository Function (NRF) For Automated Management Of 5G
United States - (US)	17/721,420	4/15/2022	Injecting Analytics Into Network Repository Function (NRF) For Automated Management Of 5G Core
Germany - (DE)	602021003652.3	1/19/2021	Method And Device For Estimating A Number Of Distinct Subscribers Of A Telecommunication Network Impacted By Network Issues
France - (FR)	21152237.0	1/19/2021	Method And Device For Estimating A Number Of Distinct Subscribers Of A Telecommunication Network Impacted By Network Issues
Great Britain - (GB)	21152237.0	1/19/2021	Method And Device For Estimating A Number Of Distinct Subscribers Of A Telecommunication Network Impacted By Network Issues
United States - (US)	17/147,696	1/13/2021	Method And Device For Estimating A Number Of Distinct Subscribers Of A Telecommunication Network Impacted By Network Issues
South Africa - (ZA)	2021/00191	1/12/2021	Method And Device For Estimating A Number Of Distinct Subscribers Of A Telecommunication Network Impacted By Network Issues

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Country/Region	Application No.	Filing Date (MM/DD/YYYY)	Title
European Patent Convention - (EP)	21156195.6	2/10/2021	Detection, Characterization, And Prediction Of Real-Time Events Occurring Approximately Periodically
United States - (US)	17/169,735	2/8/2021	Detection, Characterization, And Prediction Of Real-Time Events Occurring Approximately Periodically
European Patent Convention - (EP)	21156335.8	2/10/2021	Method And System For Determining Root-Cause Diagnosis Of Events Occurring During The Operation Of A Communication Network
United States - (US)	17/172,472	2/10/2021	Method And System For Determining Root-Cause Diagnosis Of Events Occurring During The Operation Of A Communication Network
European Patent Convention - (EP)	22178450.7	6/10/2022	Detection, Characterization, And Prediction Of Recurring Events With Missing Occurrences Using Pattern Recognition
United States - (US)	17/832,891	6/6/2022	Detection, Characterization, And Prediction Of Recurring Events With Missing Occurrences Using Pattern Recognition
European Patent Convention - (EP)	23185942.2	7/17/2023	Mobile Network Synchronization Domain Anomaly Identification And Correlation
United States - (US)	18/353,227	7/17/2023	Mobile Network Synchronization Domain Anomaly Identification And Correlation
European Patent Convention - (EP)	22213017.1	12/13/2022	Automatic Classification Of Correlated Anomalies From A Network Through Interpretable Clustering
United States - (US)	18/076,502	12/7/2022	Automatic Classification Of Correlated Anomalies From A Network Through Interpretable Clustering

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