

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7578524

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BLACKBERRY LIMITED	12/23/2020
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<b>City:</b>	SHENZHEN, GUANGDONG
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518129
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17336602
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<b>Email:</b>	apsi@fr.com
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<b>ATTORNEY DOCKET NUMBER:</b>	43968-1473004
<b>NAME OF SUBMITTER:</b>	LEREY COKER
<b>SIGNATURE:</b>	/LeRey Coker/
<b>DATE SIGNED:</b>	10/06/2022
<b>Total Attachments: 6</b>	
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Assignment of Patent Rights

For good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, **BlackBerry Limited (“Assignor”)**, hereby:

sell, assign, transfer and convey unto **Huawei Technologies Co., Ltd. (“Assignee”)**, and its successors, all rights, title and interest that exist today and may exist in the future in and to all of the following:

(A) each and all of the patents and patent applications listed below (“Listed Patents”), all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, provisionals and divisions of such patents, and any patents or patent applications (i) that claim priority to any of the foregoing; (ii) for which any of the Listed Patents forms a basis for priority; (iii) with respect to which a terminal disclaimer has been filed referencing any of the Listed Patents; (iv) that are referred to in any terminal disclaimer filed with respect to any of the Listed Patents, and all foreign counterparts of the foregoing, whether or not listed below. (the “Transferred Patents”);

(B) Inventions, invention disclosures and discoveries described in any of the Transferred Patents;

(C) Rights to apply in any or all countries of the world for any of the Transferred Patents and the inventions, invention disclosures and discoveries therein;

(D) Causes of action (whether currently pending, filed or otherwise) and other enforcement rights under, or on account of, any of the Transferred Patents, including, without limitation, all causes of action and other enforcement rights for (i) damages, (ii) injunctive relief, and (iii) any other remedies of any kind for past, current and future infringement; and

(E) Rights to collect royalties or other payments under or on account of any of the Transferred Patents and/or any of the foregoing.

<b>Application No.</b>	<b>Filing Date</b>	<b>Grant No.</b>	<b>Grant Date</b>
14138792	23 Dec 2013	8918078	23 Dec 2014
10895353	21 Jul 2004	8620266	31 Dec 2013
12051055	19 Mar 2008	8018518	13 Sep 2011
13217452	25 Aug 2011	8614760	24 Dec 2013
10786002	26 Feb 2004	7365787	29 Apr 2008
10787925	27 Feb 2004	8566399	22 Oct 2013

<b>Application No.</b>	<b>Filing Date</b>	<b>Grant No.</b>	<b>Grant Date</b>
12648607	29 Dec 2009	7996001	9 Aug 2011
13182784	14 Jul 2011	8270959	18 Sep 2012
11077231	11 Mar 2005	7664491	16 Feb 2010
11405596	18 Apr 2006	8082292	20 Dec 2011
60672090	18 Apr 2005	/	/
12908106	20 Oct 2010	8086689	27 Dec 2011
13300810	21 Nov 2011	8296387	23 Oct 2012
13615687	14 Sep 2012	8595316	26 Nov 2013
11450353	12 Jun 2006	7861005	28 Dec 2010
13613621	13 Sep 2012	8610564	17 Dec 2013
11401917	12 Apr 2006	8289158	16 Oct 2012
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11552780	25 Oct 2006	8412148	2 Apr 2013
12821408	23 Jun 2010	8180841	15 May 2012
13448649	17 Apr 2012	8412788	2 Apr 2013
13782734	1 Mar 2013	9344394	17 May 2016
11754542	29 May 2007	7752279	6 Jul 2010
13371421	11 Feb 2012	9367097	14 Jun 2016
11461842	2 Aug 2006	8139026	20 Mar 2012
11465820	21 Aug 2006	8990929	24 Mar 2015
12040306	29 Feb 2008	9049255	2 Jun 2015
11832074	1 Aug 2007	8493323	23 Jul 2013
13924545	22 Jun 2013	9110499	18 Aug 2015
12142252	19 Jun 2008	8565730	22 Oct 2013
12914189	28 Oct 2010	8144055	27 Mar 2012

<b>Application No.</b>	<b>Filing Date</b>	<b>Grant No.</b>	<b>Grant Date</b>
13429583	26 Mar 2012	8477066	2 Jul 2013
13930589	28 Jun 2013	8866669	21 Oct 2014
14490004	18 Sep 2014	9766342	19 Sep 2017
15692733	31 Aug 2017	/	/
12020714	28 Jan 2008	7847729	7 Dec 2010
14993471	12 Jan 2016	9602651	21 Mar 2017
15427975	8 Feb 2017	9876898	23 Jan 2018
12041683	4 Mar 2008	9270800	23 Feb 2016
12051413	19 Mar 2008	9448721	20 Sep 2016
11944446	22 Nov 2007	9344298	17 May 2016
13689429	29 Nov 2012	9257020	9 Feb 2016
15018334	8 Feb 2016	9848292	19 Dec 2017
15845489	18 Dec 2017	10292007	14 May 2019
16376682	5 Apr 2019	10791413	29 Sep 2020
12040401	29 Feb 2008	8335500	18 Dec 2012
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14087066	22 Nov 2013	9471199	18 Oct 2016
12398263	5 Mar 2009	8620295	31 Dec 2013
12420562	8 Apr 2009	9065868	23 Jun 2015
12756807	8 Apr 2010	8254890	28 Aug 2012
13570751	9 Aug 2012	8538360	17 Sep 2013
13967680	15 Aug 2013	8983518	17 Mar 2015
15886334	1 Feb 2018	/	/
12756463	8 Apr 2010	9917702	13 Mar 2018
61249487	7 Oct 2009	/	/

<b>Application No.</b>	<b>Filing Date</b>	<b>Grant No.</b>	<b>Grant Date</b>
12901794	11 Oct 2010	9518833	13 Dec 2016
61290570	29 Dec 2009	/	/
12900263	7 Oct 2010	8958780	17 Feb 2015
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14671752	27 Mar 2015	9414210	9 Aug 2016
13224898	2 Sep 2011	9014729	21 Apr 2015
61379908	3 Sep 2010	/	/
14202862	10 Mar 2014	9471196	18 Oct 2016
12916857	1 Nov 2010	8712327	29 Apr 2014
61365117	16 Jul 2010	/	/
13243613	23 Sep 2011	9218125	22 Dec 2015
61386219	24 Sep 2010	/	/
15656432	21 Jul 2017	/	/
16573873	17 Sep 2019	/	/
13648883	10 Oct 2012	9736089	15 Aug 2017
61554752	2 Nov 2011	/	/
13243749	23 Sep 2011	9383918	5 Jul 2016
14927564	30 Oct 2015	10237330	19 Mar 2019
16356816	18 Mar 2019	/	/
13401593	21 Feb 2012	9197733	24 Nov 2015
14971434	16 Dec 2015	10698567	30 Jun 2020
13550373	16 Jul 2012	9223483	29 Dec 2015
61602912	24 Feb 2012	/	/

<b>Application No.</b>	<b>Filing Date</b>	<b>Grant No.</b>	<b>Grant Date</b>
13400018	17 Feb 2012	8914451	16 Dec 2014
13564687	1 Aug 2012	8543934	24 Sep 2013
13968307	15 Aug 2013	9442651	13 Sep 2016
13459980	30 Apr 2012	9354805	31 May 2016
13459872	30 Apr 2012	10025487	17 Jul 2018
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13460270	30 Apr 2012	9772700	26 Sep 2017
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14459819	14 Aug 2014	9838999	5 Dec 2017
12463539	11 May 2009	/	/
61052244	11 May 2008	/	/
13610459	11 Sep 2012	8817579	26 Aug 2014
14462960	19 Aug 2014	/	/
13274239	14 Oct 2011	/	/
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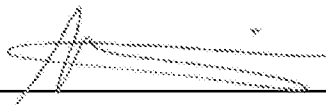
AND Assignor hereby agree to execute without further consideration any further documents and instruments which may be lawful and proper in the prosecution of the Transferred Patents, and which may be desirable or necessary to secure to Assignee its rights, title and interest in and to said Patents;

AND Assignor hereby authorize the respective patent office or governmental agency in each jurisdiction to issue any and all patents or other governmental grants or issuances that may be granted upon any of the Transferred Patents in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment of Patent Rights shall inure to the benefit of Assignee, its successors, assigns and other legal representatives and will be binding upon Assignor, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Waterloo, ON, Canada on the date of December 23, 2020.

ASSIGNOR

By:  \_\_\_\_\_

Name: Steve Rai

Title: Chief Financial Officer