

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5863752

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SUPPLEMENTAL MEMO TO PURCHASE AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALLSTATE INSURANCE COMPANY	12/13/2018
RECEIVING PARTY DATA	
Name:	ARITY INTERNATIONAL LIMITED
Street Address:	10, MAYS MEADOW
City:	BELFAST
State/Country:	IRELAND
Postal Code:	BT1 3PH
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16692102
CORRESPONDENCE DATA	
Fax Number:	(202)824-3001
<i>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.</i>	
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Email:	bwptopat@bannerwitcoff.com, mseasay@bannerwitcoff.com
Correspondent Name:	BANNER & WITCOFF, LTD.
Address Line 1:	1100 13TH ST. NW
Address Line 2:	STE 1200
Address Line 4:	WASHINGTON, D.C. 20005
ATTORNEY DOCKET NUMBER:	006591.02321\US
NAME OF SUBMITTER:	KIRK A. SIGMON
SIGNATURE:	/KIRK A. SIGMON/
DATE SIGNED:	12/12/2019
Total Attachments: 4	
source=Assignments - Supplemental Memo to Purchase Agreement (Allstate to Arity)#page1.tif	
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SUPPLEMENTAL MEMO TO PURCHASE AGREEMENT

Reference is made to that certain Purchase Agreement dated as of April 1, 2016 between Allstate Insurance Company ("AIC") and Arity International Limited ("ARIL"), as amended by the First Amendment effective as of April 1, 2016 (the "Purchase Agreement"). Capitalized terms used but not defined herein shall have the meanings provided for them in the Purchase Agreement. Pursuant to the Purchase Agreement, ARIL purchased from AIC certain Transferred Assets.

Further to Section 1 of the Purchase Agreement, below is an itemized list of all patent assets relating to the Transferred Assets as described in Schedule 1 of the Purchase Agreement.

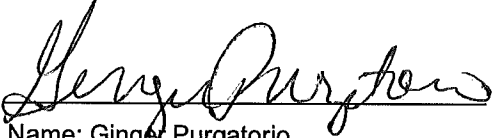
No. Count	IP Right: IP Right ID	Country	Application No.	Title	Patent No.
1	IPR-00010 US	US	14/607,636	Risk Unit Based Policies	9,361,599
2	IPR-00010 CA-2	CA	2,975,084	Risk Unit Based Policies	
3	IPR-00010 EP-2	EP	16743837.3	Risk Unit Based Policies	
4	IPR-00010 IN-2	IN	201727028297	Risk Unit Based Policies	
5	IPR-00010 JP-2	JP	2017-540651	Risk Unit Based Policies	
6	IPR-00010 US-CON	US	15/138,576	Risk Unit Based Policies	
7	IPR-00079 US	US	15/262,541	Interactive Dashboard Display	
8	IPR-00079 WO	WO	PCT/US2017/050231	Interactive Dashboard Display	
9	IPR-00010 US-DIV	US	15/138,516	Risk Unit Based Policies	
10	IPR-00068 US	US	14/988,977	Usage-Based Policies	
11	IPR-00010 US-01	US	14/607,662	Risk Unit Based Policies	9,390,452
12	IPR-00010 CA	CA	2,975,085	Risk Unit Based Policies	
13	IPR-00010 EP	EP	16743838.1	Risk Unit Based Policies	
14	IPR-00010 IN	IN	201727028149	Risk Unit Based Policies	
15	IPR-00010 JP	JP	2017-540654	Risk Unit Based Policies	
16	IPR-00010 US-01-CON	US	15/170,203	Risk Unit Based Policies	9,569,799
17	IPR-00010 US-01-CON3	US	15/397,199	Risk Unit Based Policies	
18	IPR-00010 US-01-DIV	US	15/170,084	Risk Unit Based Policies	9,569,798
19	IPR-00010 US-01-CON2	US	15/379,019	Risk Unit Based Policies	
20	IPR-00010 US-01-DIV2	US	15/170,000	Risk Unit Based Policies	
21	IPR-00024 US	US	14/685,067	Automatic Crash Detection	9,767,625
22	IPR-00024 US-DIV	US	15/339,966	Automatic Crash Detection	9,650,007
23	IPR-00024 US CON	US	15/665,710	Automatic Crash Detection	9,916,698
24	IPR-00024 US CON2	US	15/880,187	Automatic Crash Detection	10,083,550
25	IPR-00024 US CON2 CIP	US	15/900,958	Automatic Crash Detection	10,083,551
26	IPR-00024 US CON2 CIP2	US	16/106,380	Automatic Crash Detection	
27	IPR-00024 US CON3	US	16/106,455	Automatic Crash Detection	
28	IPR-00030 US	US	14/808,472	Detecting Handling of a Device in a Vehicle	9,888,392
29	IPR-00030 US CON	US	15/851,052	Detecting Handling of a Device in a Vehicle	10,117,060
30	IPR-00030 US CON2	US	16/130,607	Detecting Handling of a Device in a Vehicle	
31	IPR-00037 US	US	14/883,186	Driver Performance Ratings	9,892,573
32	IPR-00037 US CON	US	15/861,884	Driver Performance Ratings	10,026,243

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33	IPR-00037 US CON2	US	16/011,312	Driver Performance Ratings	
34	IPR-00047 US	US	14/926,793	Driving Points	
35	IPR-00063 US	US	15/066,406	Detection of Mobile Device Location within Vehicle Using Vehicle Based Data and Mobile Device Based Data	
36	IPR-00063-CA	CA	3,016,599	Detection of Mobile Device Location Within Vehicle Using Vehicle Based Data and Mobile Device Based Data	
37	IPR-00063-EP	EP	17764116.4	Detection of Mobile Device Location Within Vehicle Using Vehicle Based Data and Mobile Device Based Data	
38	IPR-00063-IN	IN	201847033633	Detection of Mobile Device Location Within Vehicle Using Vehicle Based Data and Mobile Device Based Data	
39	IPR-00063-JP	JP	2017-547271	Detection of Mobile Device Location Within Vehicle Using Vehicle Based Data and Mobile Device Based Data	
40	IPR-00063-MX	MX	MX/a/2018/010904	Detection of Mobile Device Location Within Vehicle Using Vehicle Based Data and Mobile Device Based Data	
41	IPR-00067 US	US	14/992,704	Accident Fault Detection Based on Multiple Sensor Devices	
42	IPR-00119 US-02	US	14/685,761	Vehicle Telematics and Account Management	
43	IPR-00119 US-CON	US	15/661,748	Vehicle Telematics and Account Management	
44	IPR00177US-01-CON	US	14/803,446	Telematics Based on Handset Movement Within A Moving Vehicle	9,672,570
45	IPR00177US-01-CON2	US	15/614,202	Telematics Based on Handset Movement within a Moving Vehicle	10,096,070
46	IPR00177US-01-CON3	US	16/151,997	Telematics Based on Handset Movement within a Moving Vehicle	
47	IPR-00278 US-DIV-3	US	14/697,153	Route Risk Mitigation - PAYD Insurance Purchase Just-In-Time for Driving	10,037,579
48	IPR-00034 US CIP	US	14/733,576	Route Risk Mitigation	9,932,033
49	IPR-00034 CA	CA	2,988,134	Route Risk Mitigation	
50	IPR-00034 EP	EP	16808098.4	Route Risk Mitigation	
51	IPR-00034 IN CIP	IN	201727043994	Route Risk Mitigation	
52	IPR-00034 US CIP CON1	US	15/900,861	Route Risk Mitigation	
53	IPR00316US-01-CON	US	14/823,029	Driving Trip and Pattern Analysis	10,163,274
54	IPR00316US-01-CON2	US	16/193,133	Driving Trip and Pattern Analysis	
55	IPR00317US-01-CON	US	14/823,070	Driving Trip and Pattern Analysis	10,163,275
56	IPR-00464 US	US	15/391,986	System and Methods for Detecting Vehicle Braking Events Using Data from Fused Sensors in Mobile Devices	9,809,159
57	IPR-00464 US-CON	US	15/709,889	System and Methods for Detecting Vehicle Braking Events Using Data from Fused Sensors in Mobile Devices	10,112,530

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58	IPR-00464 US-CON2	US	16/128,958	System and Methods for Detecting Vehicle Braking Events Using Data from Fused Sensors in Mobile Devices	
59	IPR-00464 WO	WO	PCT/US2017/065237	System and Methods for Detecting Vehicle Braking Events Using Data from Fused Sensors in Mobile Devices	
60	IPR-00429 US	US	14/753,782	Automatically Identifying Drivers	9,842,437
61	IPR-00429 BR	BR	BR112017028164-3	Automatically Identifying Drivers	
62	IPR-00429 JP	JP	2017-565299	Automatically Identifying Drivers	
63	IPR-00429 MX	MX	MX/a/2017/016897	Automatically Identifying Drivers	
64	IPR-00429 US-01	US	15/727,242	Automatically Identifying Drivers	
65	IPR-00480 US	US	15/263,562	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	9,654,932
66	IPR-00480 US-CON	US	15/470,263	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	9,867,015
67	IPR-00480 US-CON2	US	15/841,867	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	
68	IPR-00480 US-CON2 CIP	US	15/935,161	Detecting Device Movement and/or Device Usage Within a Vehicle	
69	IPR-00480 WO	WO	PCT/US2017/051304	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	
70	IPR-00482 US	US	15/251,556	Vehicle Turn Detection	9,666,067
71	IPR-00482 US-CON	US	15/496,336	Vehicle Turn Detection	9,905,127
72	IPR-00482 US-CON2	US	15/873,211	Vehicle Turn Detection	10,140,857
73	IPR-00482 WO	WO	PCT/US2017/049120	Vehicle Turn Detection	
74	IPR-00482 US-CON3	US	16/166,798	Vehicle Turn Detection	

Signed this 13 day of December 2018

ALLSTATE INSURANCE COMPANY

by: 

Name: Ginger Purgatorio
Title: Senior Vice President

Signed this _____ day of December 2018

ARITY INTERNATIONAL LIMITED

by: _____

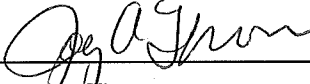
Name: Joy Thomas
Title: Vice President

No. Count	IP Right: IP Right ID	Country	Application No.	Title	Patent No.
58	IPR-00464 US-CON2	US	16/128,958	System and Methods for Detecting Vehicle Braking Events Using Data from Fused Sensors in Mobile Devices	
59	IPR-00464 WO	WO	PCT/US2017/065237	System and Methods for Detecting Vehicle Braking Events Using Data from Fused Sensors in Mobile Devices	
60	IPR-00429 US	US	14/753,782	Automatically Identifying Drivers	9,842,437
61	IPR-00429 BR	BR	BR112017028164-3	Automatically Identifying Drivers	
62	IPR-00429 JP	JP	2017-565299	Automatically Identifying Drivers	
63	IPR-00429 MX	MX	MX/a/2017/016897	Automatically Identifying Drivers	
64	IPR-00429 US-01	US	15/727,242	Automatically Identifying Drivers	
65	IPR-00480 US	US	15/263,562	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	9,654,932
66	IPR-00480 US-CON	US	15/470,263	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	9,867,015
67	IPR-00480 US-CON2	US	15/841,867	Systems and Methods for Detecting Mobile Device Movement within a Vehicle Using Accelerometer Data	
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71	IPR-00482 US-CON	US	15/496,336	Vehicle Turn Detection	9,905,127
72	IPR-00482 US-CON2	US	15/873,211	Vehicle Turn Detection	10,140,857
73	IPR-00482 WO	WO	PCT/US2017/049120	Vehicle Turn Detection	
74	IPR-00482 US-CON3	US	16/166,798	Vehicle Turn Detection	

Signed this _____ day of December 2018
ALLSTATE INSURANCE COMPANY

by: _____
Name: Ginger Purgatorio
Title: Senior Vice President

Signed this 13 day of December 2018
ARITY INTERNATIONAL LIMITED

by: 
Name: Joy Thomas
Title: Vice President