

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8406219

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NEC ASIA PACIFIC PTE LTD.	01/18/2024
RECEIVING PARTY DATA	
Name:	IP WAVE PTE LTD.
Street Address:	20 COLLYER QUAY, #23-01, COLLYER QUAY
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	049319
PROPERTY NUMBERS Total: 179	
Property Type	Number
Patent Number:	9968003
Patent Number:	8432695
Patent Number:	9456528
Patent Number:	9292555
Patent Number:	9043645
Patent Number:	9195532
Patent Number:	8775746
Patent Number:	8566555
Patent Number:	9158808
Patent Number:	9183009
Patent Number:	9740534
Patent Number:	8661458
Patent Number:	8881158
Patent Number:	8938740
Patent Number:	7739544
Patent Number:	8555295
Patent Number:	8635402
Patent Number:	9727247
Patent Number:	10203876
Patent Number:	11405411

Property Type	Number
Patent Number:	7747663
Patent Number:	8275735
Patent Number:	8683121
Patent Number:	8725969
Patent Number:	8555007
Patent Number:	9110839
Patent Number:	9201891
Patent Number:	9110696
Patent Number:	10541858
Patent Number:	10007536
Patent Number:	9448923
Patent Number:	9575679
Patent Number:	9690603
Patent Number:	9838254
Patent Number:	10430102
Patent Number:	8767382
Patent Number:	8990632
Patent Number:	9482632
Patent Number:	9785524
Patent Number:	10292312
Patent Number:	10416743
Patent Number:	11044836
Patent Number:	10440854
Patent Number:	10801786
Patent Number:	9377026
Patent Number:	9976563
Patent Number:	9651320
Patent Number:	8418260
Patent Number:	8799548
Patent Number:	9654277
Patent Number:	8108604
Patent Number:	8701902
Patent Number:	8443264
Patent Number:	9058113
Patent Number:	9443549
Patent Number:	9509446
Patent Number:	10162573
Patent Number:	9123376

Property Type	Number
Patent Number:	9613036
Patent Number:	9804805
Patent Number:	9326603
Patent Number:	9569329
Patent Number:	9583138
Patent Number:	10003588
Patent Number:	10114583
Patent Number:	10387043
Patent Number:	10620869
Patent Number:	10459654
Patent Number:	10579268
Patent Number:	10379770
Patent Number:	9629265
Patent Number:	9263365
Patent Number:	9064761
Patent Number:	9857852
Patent Number:	9666542
Patent Number:	9380872
Patent Number:	9201645
Patent Number:	9900973
Patent Number:	9781820
Patent Number:	9740251
Patent Number:	10334721
Patent Number:	10499545
Patent Number:	10684905
Patent Number:	10772187
Patent Number:	10794639
Patent Number:	8676958
Patent Number:	9032064
Patent Number:	9258184
Patent Number:	9559924
Patent Number:	9871693
Patent Number:	10686653
Patent Number:	11245571
Application Number:	17667508
Patent Number:	8656226
Patent Number:	9430309
Patent Number:	10108478

Property Type	Number
Patent Number:	10817364
Patent Number:	10347100
Patent Number:	10854056
Patent Number:	10854057
Patent Number:	11367330
Application Number:	17828088
Patent Number:	10362274
Patent Number:	10893240
Patent Number:	10735693
Patent Number:	11800063
Application Number:	18140306
Application Number:	18242375
Application Number:	18242382
Application Number:	18242252
Application Number:	18242272
Patent Number:	8749658
Patent Number:	9619681
Patent Number:	9858458
Patent Number:	10710051
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Patent Number:	9467552
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Patent Number:	9451075
Patent Number:	10122844
Patent Number:	10560566
Patent Number:	8514945

Property Type	Number
Patent Number:	8065568
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Patent Number:	8565556
Patent Number:	8655076
Patent Number:	9760804
Patent Number:	8099489
Patent Number:	8606879
Patent Number:	10142390
Patent Number:	9541585
Patent Number:	10742436
Patent Number:	10887090
Patent Number:	11546145
Patent Number:	9819525
Patent Number:	10225017
Patent Number:	8848044
Patent Number:	9030539
Patent Number:	8054143
Patent Number:	8325799
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Patent Number:	8690335
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Patent Number:	7675889
Patent Number:	8418183
Patent Number:	8750163
Patent Number:	9900249
Patent Number:	9531566
Patent Number:	8125261
Patent Number:	8344446
Patent Number:	8796129
Patent Number:	8205236
Patent Number:	8098891
Patent Number:	8214521
Patent Number:	10333815
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Patent Number:	10511613
Patent Number:	10367838
Patent Number:	10476752
Patent Number:	10476749

Property Type	Number
Patent Number:	10333952
Patent Number:	10298607
Patent Number:	10289841
Patent Number:	10367842
Patent Number:	10476753
Patent Number:	10476754
Patent Number:	7906846

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	004324
NAME OF SUBMITTER:	DEREK RABY - JWL
SIGNATURE:	/Derek M. Raby/
DATE SIGNED:	01/26/2024

Total Attachments: 6

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Assignment

Whereas, NEC Asia Pacific Pte Ltd., a corporation, having a place of business at 80 Bendemeer Road, #05-01/02, Singapore 339949, hereinafter called Assignor, is the owner of record of a 100% right, title and interest in the U.S. patents and patent application, listed in the attached Appendix, by assignment recorded with the U.S. Patent and Trademark Office, hereinafter called Assigned Patents and Application; and

Whereas, IP Wave Pte Ltd., a corporation, having a place of business at 20 Collyer Quay, #23-01, 20 Collyer Quay, Singapore 049319, hereinafter called Assignee, desires to acquire the Assignor's entire right, title, and interest in and to said Assigned Patents and Application, and the inventions disclosed therein;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

The above named Assignor, hereby sells, assigns and transfers to the above named Assignee, its successors and assigns, the Assignor's entire right, title and interest in the Assigned Patents and Application, and the inventions disclosed therein for the United States of America, and the right to sue for past damages; and Assignor will execute without further consideration all papers deemed necessary by the Assignee in connection with said Assigned Patents and Application when called upon to do so by the Assignee.

IN WITNESS WHEREOF, NEC Asia Pacific Pte Ltd. has executed this Assignment by proper persons duly authorized.

Date: 18 January 2024



Koichiro Koide
18/01/2024 23:10:50(UTC+09:00)
Signed by Koichiro Koide,

s/ koichiro_koide@nec.com.sg

SIGNFLOW.COM

Name of Person Signing: Koichiro Koide

Title of Person Signing: Chief Executive Officer
NEC Asia Pacific Pte Ltd.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Appendix

No.	U.S. Application No.	Application Date	Registration No.	Registration Date
1	15/110888	07/11/2016	9968003	04/18/2018
2	12/441811	08/07/2009	8432695	04/10/2013
3	14/401282	11/14/2014	9456528	09/07/2016
4	14/009778	1/15/2014	9292555	3/22/2016
5	13/643391	4/26/2011	9043645	5/26/2015
6	13/823816	3/15/2013	9195532	11/24/2015
7	13/254339	3/3/2010	8775746	7/8/2014
8	13/254337	9/1/2011	8566555	10/22/2013
9	13/810257	1/15/2013	9158808	10/13/2015
10	13/819641	2/27/2013	9183009	11/10/2015
11	14/761800	7/17/2015	9740534	8/22/2017
12	12/919636	8/26/2010	8661458	2/25/2014
13	13/063232	3/10/2011	8881158	11/4/2014
14	13/581775	8/29/2012	8938740	1/20/2015
15	11/369736	3/8/2006	7739544	6/15/2010
16	12/307656	7/4/2007	8555295	10/8/2013
17	13/262048	3/31/2010	8635402	1/21/2014
18	14/772892	9/4/2015	9727247	8/8/2017
19	15/037830	5/19/2016	10203876	2/12/2019
20	16/493930	9/13/2019	11405411	8/2/2022
21	12/042777	3/5/2008	7747663	6/29/2010
22	12/593491	3/13/2008	8275735	9/25/2012
23	13/139606	6/14/2011	8683121	3/25/2014
24	13/148894	8/10/2011	8725969	5/13/2014
25	13/147670	8/3/2011	8555007	10/8/2013
26	13/640528	10/11/2012	9110839	8/18/2015
27	13/819568	4/1/2013	9201891	12/1/2015
28	13/735149	1/7/2013	9110696	8/18/2015
29	13/754338	1/30/2013	10541858	1/21/2020
30	13/826167	3/14/2013	10007536	6/26/2018
31	14/100181	12/9/2013	9448923	9/20/2016
32	14/198832	3/6/2014	9575679	2/21/2017
33	14/229076	3/28/2014	9690603	6/27/2017
34	14/671132	3/27/2015	9838254	12/5/2017
35	15/319105	6/23/2015	10430102	10/1/2019
36	13/085651	4/13/2011	8767382	7/1/2014

37	13/609556	9/11/2012	8990632	3/24/2015
38	14/018152	9/4/2013	9482632	11/1/2016
39	14/641146	3/6/2015	9785524	10/10/2017
40	15/448235	3/2/2017	10292312	5/14/2019
41	15/891562	2/8/2018	10416743	9/17/2019
42	15/890544	2/7/2018	11044836	6/22/2021
43	15/917972	3/12/2018	10440854	10/8/2019
44	16/148230	10/1/2018	10801786	10/13/2020
45	13/401032	2/21/2012	9377026	6/28/2016
46	14/733840	6/8/2015	9976563	5/22/2018
47	13/782490	3/1/2013	9651320	5/16/2017
48	12/724523	3/16/2010	8418260	4/9/2013
49	13/232669	9/14/2011	8799548	8/5/2014
50	14/660598	3/17/2015	9654277	5/16/2017
51	12/400960	3/10/2009	8108604	1/31/2012
52	12/545231	8/21/2009	8701902	4/22/2014
53	12/816444	6/16/2010	8443264	5/14/2013
54	13/240611	9/22/2011	9058113	6/16/2015
55	14/142089	12/27/2013	9443549	9/13/2016
56	14/513869	10/14/2014	9509446	11/29/2016
57	14/495021	9/24/2014	10162573	12/25/2018
58	14/496466	9/25/2014	9123376	9/1/2015
59	14/608746	1/29/2015	9613036	4/4/2017
60	14/601393	1/21/2015	9804805	10/31/2017
61	14/628761	2/23/2015	9326603	5/3/2016
62	14/660186	3/17/2015	9569329	2/14/2017
63	14/993245	1/12/2016	9583138	2/28/2017
64	15/060836	3/4/2016	10003588	6/19/2018
65	15/060842	3/4/2016	10114583	10/30/2018
66	15/422680	2/2/2017	10387043	8/20/2019
67	15/440375	2/23/2017	10620869	4/14/2020
68	15/840144	12/13/2017	10459654	10/29/2019
69	15/875048	1/19/2018	10579268	3/3/2020
70	15/926067	3/20/2018	10379770	8/13/2019
71	13/780005	2/28/2013	9629265	4/18/2017
72	14/182426	2/18/2014	9263365	2/16/2016
73	14/196045	3/4/2014	9064761	6/23/2015
74	14/484310	9/12/2014	9857852	1/2/2018

75	14/494974	9/24/2014	9666542	5/30/2017
76	14/606154	1/27/2015	9380872	7/5/2016
77	14/577158	12/19/2014	9201645	12/1/2015
78	14/867465	9/28/2015	9900973	2/20/2018
79	15/072531	3/17/2016	9781820	10/3/2017
80	15/073868	3/18/2016	9740251	8/22/2017
81	15/867904	1/11/2018	10334721	6/25/2019
82	15/892712	2/9/2018	10499545	12/3/2019
83	15/923112	3/16/2018	10684905	6/16/2020
84	16/260636	1/29/2019	10772187	9/8/2020
85	16/291074	3/4/2019	10794639	10/6/2020
86	11/351947	2/10/2006	8676958	3/18/2014
87	14/190433	2/26/2014	9032064	5/12/2015
88	14/678604	4/3/2015	9258184	2/9/2016
89	15/019846	2/9/2016	9559924	1/31/2017
90	15/416926	1/26/2017	9871693	1/16/2018
91	15/872766	1/16/2018	10686653	6/16/2020
92	16/903267	6/16/2020	11245571	2/8/2022
93	17/667508	2/8/2022		
94	13/017717	1/31/2011	8656226	2/18/2014
95	14/175484	2/7/2014	9430309	8/30/2016
96	15/251576	8/30/2016	10108478	10/23/2018
97	16/167988	10/23/2018	10817364	10/27/2020
98	14/786945	4/23/2014	10347100	7/9/2019
99	16/274910	4/23/2014	10854056	12/1/2020
100	16/274948	4/23/2014	10854057	12/1/2020
101	17/032429	4/23/2014	11367330	6/21/2022
102	17/828088	4/23/2014		1/0/1900
103	15/519271	10/28/2015	10362274	7/23/2019
104	16/295150	10/28/2015	10893240	1/12/2021
105	16/438628	10/28/2015	10735693	8/4/2020
106	17/123737	10/28/2015	11800063	10/24/2023
107	18/140306	10/28/2015		1/0/1900
108	18/242375	10/28/2015		1/0/1900
109	18/242382	10/28/2015		1/0/1900
110	18/242252	10/28/2015		1/0/1900
111	18/242272	10/28/2015		1/0/1900
112	13/263034	3/23/2010	8749658	6/10/2014

113	14/649642	10/8/2013	9619681	4/11/2017
114	15/446317	10/8/2013	9858458	1/2/2018
115	16/085217	2/28/2017	10710051	7/14/2020
116	16/327664	8/4/2017	10937598	3/2/2021
117	16/825395	3/20/2020	10997488	5/4/2021
118	16/848235	3/20/2020	11132596	9/28/2021
119	17/171172	3/20/2020	11386279	7/12/2022
120	14/382417	2/13/2013	9326115	4/26/2016
121	15/544416	1/29/2016	10628273	4/21/2020
122	13/983001	12/8/2011	9313128	4/12/2016
123	15/072558	12/8/2011	9560177	1/31/2017
124	12/279445	1/12/2007	8418220	4/9/2013
125	13/788085	1/12/2007	8973086	3/3/2015
126	12/738871	12/18/2008	8229496	7/24/2012
127	13/530482	12/18/2008	8996058	3/31/2015
128	14/278870	12/18/2008	9467552	10/11/2016
129	14/573369	12/18/2008	9467554	10/11/2016
130	14/624736	12/18/2008	9716785	7/25/2017
131	14/632120	12/18/2008	9451075	9/20/2016
132	15/622334	12/18/2008	10122844	11/6/2018
133	16/164902	12/18/2008	10560566	2/11/2020
134	11/882178	7/31/2007	8514945	8/20/2013
135	11/994954	7/11/2006	8065568	11/22/2011
136	15/510982	9/10/2015	10802888	10/13/2020
137	12/665766	7/3/2008	8565556	10/22/2013
138	12/524027	1/23/2008	8655076	2/18/2014
139	14/134968	1/23/2008	9760804	9/12/2017
140	10/965956	10/18/2004	8099489	1/17/2012
141	13/256005	3/12/2010	8606879	12/10/2013
142	14/765835	2/15/2013	10142390	11/27/2018
143	13/993513	12/15/2011	9541585	1/10/2017
144	15/032646	10/29/2013	10742436	8/11/2020
145	15/950185	4/11/2018	10887090	1/5/2021
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147	14/906632	7/31/2013	9819525	11/14/2017
148	15/300378	4/15/2014	10225017	3/5/2019
149	12/524410	1/22/2008	8848044	9/30/2014
150	14/300350	1/22/2008	9030539	5/12/2015

151	12/447521	8/8/2008	8054143	11/8/2011
152	11/794142	12/27/2005	8325799	12/4/2012
153	12/089483	10/10/2006	8035992	10/11/2011
154	13/129335	10/28/2009	8690335	4/8/2014
155	16/080709	11/15/2017	10542293	1/21/2020
156	10/460162	6/13/2003	7675889	3/9/2010
157	11/192054	7/29/2005	8418183	4/9/2013
158	13/176610	9/13/2010	8750163	6/10/2014
159	14/244701	9/13/2010	9900249	2/20/2018
160	13/818085	7/1/2011	9531566	12/27/2016
161	10/565190	7/15/2004	8125261	2/28/2012
162	12/518351	12/13/2007	8344446	1/1/2013
163	13/688903	12/13/2007	8796129	8/5/2014
164	10/116138	4/5/2002	8205236	6/19/2012
165	12/277278	11/24/2008	8098891	1/17/2012
166	12/629048	12/2/2009	8214521	7/3/2012
167	15/413812	1/24/2017	10333815	6/25/2019
168	15/213896	4/14/2016	10305917	5/28/2019
169	16/055675	1/24/2017	10511613	12/17/2019
170	15/425335	4/14/2016	10367838	7/30/2019
171	15/477625	4/14/2016	10476752	11/12/2019
172	15/477603	4/14/2016	10476749	11/12/2019
173	15/729030	4/14/2016	10333952	6/25/2019
174	15/725994	4/14/2016	10298607	5/21/2019
175	15/725974	4/14/2016	10289841	5/14/2019
176	15/902318	4/14/2016	10367842	7/30/2019
177	15/902369	4/14/2016	10476753	11/12/2019
178	15/902432	4/14/2016	10476754	11/12/2019
179	12/065427	5/31/2006	7906846	3/15/2011