



SISVEL INTERNATIONAL S.A.

6, Avenue Marie Thérèse  
L-2132 Luxembourg  
Phone: +352 27 85 701  
Fax: +352 28 22 50 40  
www.sisvel.com



To the kind attention of the IP Department cc Legal Department

**Samsung Electronics Co., Ltd.**  
129, Samsung-ro, Yeongtong-gu  
16677 Suwon-si, Gyeonggi-do  
KOREA

*By e-mail and registered letter*  
Luxemburg, January 18, 2023

**Re: Notice of Wi-Fi 6 license offer – Follow-up to our letter dated August 24, 2022, and follow-up communications**

Dear Sir or Madam,

This letter follows up on our “Notice of Wi-Fi 6 license offer” letter, sent to you on August 24, 2022, as well as our subsequent follow-up communications.

As you may have become aware from public press coverage, and as noted on our website upon launch of our Wi-Fi 6 patent pool, Sisvel recently published on its website the first version of the list of Pool Wi-Fi 6 SEPs evaluated by independent third-party patent evaluators as being essential to the Wi-Fi 6 Standard as of January 13, 2023, together with their family members (“Evaluated Pool Wi-Fi 6 SEPs”). Please find the list of Evaluated Pool Wi-Fi 6 SEPs attached to this letter. Such list is also available on Sisvel’s website under the following link: [https://www.sisvel.com/images/documents/Wi-Fi-6/Wi-Fi\\_6\\_Pool\\_Patent\\_List.pdf](https://www.sisvel.com/images/documents/Wi-Fi-6/Wi-Fi_6_Pool_Patent_List.pdf). Please note, the patent list will be updated by Sisvel on a regular basis upon additional Pool Wi-Fi 6 SEPs being evaluated as essential to the Wi-Fi 6 Standard by independent third-party patent evaluators.

All statements made and the offered economic license conditions indicated in our previous letters remain unchanged.

Please note that we also make available an overview of the Evaluated Pool Wi-Fi 6 SEPs which will enable Samsung Electronics Co., Ltd. to understand how the Evaluated Pool Wi-Fi 6 SEPs are utilized by any product making use of the cited technical specifications (“Pool Patent Brochure”), including Samsung Electronics Co., Ltd.’s products. To this end, the Pool Patent Brochure indicates the relevant versions and sections of the Wi-Fi 6 Standard in relation to exemplary claims of the Evaluated Pool Wi-Fi 6 SEPs within the License Offer. The updated Pool Patent Brochure is available on Sisvel’s website under the link: [https://www.sisvel.com/images/documents/Wi-Fi-6/Wi-Fi\\_6\\_Pool\\_Patent\\_Brochure.pdf](https://www.sisvel.com/images/documents/Wi-Fi-6/Wi-Fi_6_Pool_Patent_Brochure.pdf)

As already stated in our previous letters, by signing a license agreement with Sisvel, your company’s products would be licensed for their use of the Pool Wi-Fi 6 SEPs, under fair, reasonable and non-discriminatory (“FRAND”) terms. Full terms and conditions can be found in the template Wi-Fi 6 pool license agreement under the following link: [https://www.sisvel.com/Wi-Fi-6/Sisvel\\_Wi-Fi\\_6\\_Sublicense\\_Agreement\\_template.pdf](https://www.sisvel.com/Wi-Fi-6/Sisvel_Wi-Fi_6_Sublicense_Agreement_template.pdf)

Yours sincerely,

**Andrea Rombola**  
SISVEL  
Program Manager – Wi-Fi Licensing Program

**Attachment:**

- *List of Evaluated Pool Wi-Fi 6 SEPs*

SUCCESSFULLY FOSTERING AND VALORIZING INNOVATION SINCE 1982



SISVEL



Attachment:

LIST OF EVALUATED POOL WI-FI 6 SEPS

Huawei

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| US10285091      |                 | CN105960807     | FR (EP) 3395096 | CN105900509     |
| CN103931153     | KR10-1886290    | CN108768600     | GB (EP) 3395096 | DE (EP) 2962506 |
| CN107612603     | KR10-1940794    | US11012202      | HU (EP) 3395096 | EP2962506       |
| US10945157      | KR10-1960002    | CN111277532     | IE (EP) 3395096 | FR (EP) 2962506 |
| DE (EP) 2777236 | CN105940650     | DE (EP) 3017615 | IT (EP) 3395096 | GB (EP) 2962506 |
| EP2777236       | US10778389      | EP3017615       | NL (EP) 3395096 | DE (EP) 3236691 |
| ES (EP) 2777236 | CN110351062     | ES (EP) 3017615 | SE (EP) 3395096 | EP3236691       |
| GB (EP) 2777236 | US11431449      | FR (EP) 3017615 | CA3011523       | FR (EP) 3236691 |
| IT (EP) 2777236 | VN26632         | GB (EP) 3017615 |                 | GB (EP) 3236691 |
| NL (EP) 2777236 | DE (EP) 3079322 | HU (EP) 3017615 | CN107710820     |                 |
| DE (EP) 3264705 | EP3079322       | IT (EP) 3017615 |                 | CN106465168     |
| EP3264705       | ES (EP) 3079322 | NL (EP) 3017615 | CN107027133     | US11284283      |
| ES (EP) 3264705 | FR (EP) 3079322 | IN400918        | CN111510936     |                 |
| FR (EP) 3264705 | GB (EP) 3079322 | US9755795       |                 | US10820304      |
| GB (EP) 3264705 | IT (EP) 3079322 |                 | CN109428704     | CN108353429     |
| IT (EP) 3264705 | NL (EP) 3079322 | CN107484256     | US11044132      |                 |
| DE (EP) 3468127 | PL (EP) 3079322 | DE (EP) 3454622 |                 | CN106936749     |
| EP3468127       | SE (EP) 3079322 | EP3454622       | US10063362      |                 |
| FR (EP) 3468127 | TR (EP) 3079322 | FR (EP) 3454622 |                 | CN105850078     |
| GB (EP) 3468127 | DE (EP) 3691169 | GB (EP) 3454622 | US10211958      |                 |
| SE (EP) 3468127 | EP3691169       | JP6753588       |                 | CN106688303     |
| US9071489       | FR (EP) 3691169 | IDP000079576    | CN107969170     |                 |
| US9713031       | GB (EP) 3691169 |                 | US10798717      | CN107534931     |
|                 | IT (EP) 3691169 | US10945295      | US11452109      |                 |
| US10298365      | NL (EP) 3691169 | DE (EP) 3530058 |                 | CN107027161     |
| CN105830518     | PL (EP) 3691169 | EP3530058       | CN107852674     | US10893472      |
| CN105850088     | SE (EP) 3691169 | FR (EP) 3530058 |                 |                 |
| CN106465380     | TR (EP) 3691169 | GB (EP) 3530058 | CN107409431     | US10588133      |
| CN111245588     | JP6479827       |                 |                 | KR10-2152107    |
| VN29229         | JP6907251       | CN106856629     | CN108123781     | CN106888505     |
| DE (EP) 3143741 |                 | DE (EP) 3373682 |                 | JP6637180       |
| EP3143741       | KR10-1810950    | EP3373682       | CN109429564     |                 |
| ES (EP) 3143741 | US10313169      | ES (EP) 3373682 |                 | US10136440      |
| FR (EP) 3143741 | CN105264991     | GB (EP) 3373682 | CN107529354     | CN108476476     |
| GB (EP) 3143741 | DE (EP) 3017641 | HU (EP) 3373682 |                 |                 |
| IT (EP) 3143741 | EP3017641       | IT (EP) 3373682 | CN106487490     | KR10-1897371    |
| NL (EP) 3143741 | FI (EP) 3017641 | NL (EP) 3373682 |                 | CN105830467     |
| PL (EP) 3143741 | FR (EP) 3017641 |                 | CN106912108     | CN108617006     |
| SE (EP) 3143741 | GB (EP) 3017641 | VN10030703      |                 | DE (EP) 3017614 |
| DE (EP) 3146782 | IE (EP) 3017641 | US10750536      | CN106612159     | EP3017614       |
| EP3146782       | SE (EP) 3017641 | CN108702654     | CN106851848     | ES (EP) 3017614 |
| FR (EP) 3146782 | IN400562        | AU2017206398    | CN107710803     | FR (EP) 3017614 |
| GB (EP) 3146782 | US9729368       | RU2695532       | EP3376813       | GB (EP) 3017614 |
| IT (EP) 3146782 |                 | DE (EP) 3395096 | GB (EP) 3376813 | HU (EP) 3017614 |
| SE (EP) 3146782 | KR10-1810949    | EP3395096       |                 | IT (EP) 3017614 |
| JP6469733       | US10567126      | ES (EP) 3395096 | US10142936      | NL (EP) 3017614 |



SISVEL



|                              |   |  |   |   |
|------------------------------|---|--|---|---|
| SE (EP) 3017614<br>JP6775546 | GB (EP) 3190716<br>IT (EP) 3190716<br>DE (EP) 3512109 | KR10-2040747<br>KR10-2190224<br>US10616895<br>US10645697<br>CN107113810<br>CN108683483<br>CN109120391<br>US10939435<br>CN109698740<br>SG11201710537U<br>US11425716<br>AU2015399265<br>RU2669579<br>DE (EP) 3678321<br>EP3678321<br>ES (EP) 3678321<br>FR (EP) 3678321<br>GB (EP) 3678321<br>IT (EP) 3678321<br>NL (EP) 3678321<br>SE (EP) 3678321<br>JP6740442 | FR (EP) 3525387<br>GB (EP) 3525387<br>SE (EP) 3525387<br>JP6602874<br>JP7059235<br><br>KR10-2126785<br>CN107087304<br>US11116003<br>RU2700406<br>DE (EP) 3407641<br>EP3407641<br>FR (EP) 3407641<br>GB (EP) 3407641<br>MX392310<br>IDP000071231<br><br>US10972977<br>VN10028253<br>KR10-2015199<br>US10448331<br>CN105830380<br>JP6509333<br><br>VN10026266<br>KR10-1883416<br>US10264599<br>US10631322<br>CN106465400<br>CN111629388<br>DE (EP) 3113565<br>EP3113565<br>FR (EP) 3113565<br>GB (EP) 3113565<br>NL (EP) 3113565<br>JP6479033<br><br>CN109756297<br>US11310087<br>AU2018361284<br>JP7047083<br><br>US10548156<br>KR10-1863713<br>VN28211<br>DE (EP) 3151459<br>EP3151459<br>GB (EP) 3151459<br>NL (EP) 3151459<br>JP6498707<br><br>CN107432036<br><br>US10278182<br>CN106605437 | US10925057<br>US11533725<br>DE (EP) 3182777<br>EP3182777<br>ES (EP) 3182777<br>GB (EP) 3182777<br>NL (EP) 3182777<br><br>US10721768<br>KR10-1922579<br>US10342042<br>CN107079020<br>RU2665295<br>VN30069<br>JP6837978<br>JP7135013<br>IDP000075191<br><br>KR10-2061123<br>US10560936<br>CN106063350<br>US11284388<br>MY192889-A<br>DE (EP) 3244676<br>EP3244676<br>ES (EP) 3244676<br>FR (EP) 3244676<br>GB (EP) 3244676<br>JP6664404<br><br>VN10033107<br>KR10-1996581<br>US10674533<br>US10716135<br>CN109245872<br>US11368977<br>MY190060-A<br>AU2015395033<br>RU2673699<br>CA2986605<br>DE (EP) 3297385<br>EP3297385<br>FR (EP) 3297385<br>GB (EP) 3297385<br>IT (EP) 3297385<br>NL (EP) 3297385<br>DE (EP) 3661104<br>EP3661104<br>ES (EP) 3661104<br>FR (EP) 3661104<br>GB (EP) 3661104<br>IT (EP) 3661104<br>NL (EP) 3661104<br>SE (EP) 3661104<br>TR (EP) 3661104 |
|------------------------------|---|--|---|---|



SISVEL



|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| JP6744332       | CN108964858     | ES (EP) 3389211 | IT (EP) 3337077 | CN110912668     |
| JP6968240       | US11178659      | FR (EP) 3389211 | NL (EP) 3337077 | AU2017285829    |
| IDP000067872    | AU2015393577    | GB (EP) 3389211 | PL (EP) 3337077 | ZA201805602     |
|                 | ZA2017/08112    | IT (EP) 3389211 | SE (EP) 3337077 | RU2711509       |
| KR10-2238772    | CA2984181       | NL (EP) 3389211 | TR (EP) 3337077 | DE (EP) 3413661 |
| KR10-2308351    | DE (EP) 3288324 | PL (EP) 3389211 | DE (EP) 3606255 | EP3413661       |
| CN106922034     | EP3288324       | SE (EP) 3389211 | EP3606255       | ES (EP) 3413661 |
| CN108924945     | FR (EP) 3288324 | TR (EP) 3389211 | ES (EP) 3606255 | FR (EP) 3413661 |
| CN110062477     | GB (EP) 3288324 | CA3009081       | GB (EP) 3606255 | GB (EP) 3413661 |
| US11317439      | IT (EP) 3288324 | MX382829        | BE (EP) 3611989 | IT (EP) 3413661 |
| US11324044      | NL (EP) 3288324 | JP6720320       | DE (EP) 3611989 | NL (EP) 3413661 |
| JP6728359       | DE (EP) 3609265 | JP7143357       | DK (EP) 3611989 | PL (EP) 3413661 |
|                 | EP3609265       | IDP000068205    | EP3611989       | SE (EP) 3413661 |
| KR10-2078647    | ES (EP) 3609265 |                 | FI (EP) 3611989 | TR (EP) 3413661 |
| US10461978      | FR (EP) 3609265 | US10349340      | FR (EP) 3611989 | CA3015425       |
| CN107534534     | GB (EP) 3609265 | US10856210      | GB (EP) 3611989 | MX393859        |
| US10951451      | NL (EP) 3609265 | ZA2020/00088    | IT (EP) 3611989 | JP6705009       |
| CN112187427     | PL (EP) 3609265 | RU2767305       | SE (EP) 3611989 | JP6907382       |
| DE (EP) 3293909 | SE (EP) 3609265 | CA3067750       | IN365176        | IDP000066652    |
| EP3293909       | TR (EP) 3609265 | JP6999711       | MX381603        |                 |
| ES (EP) 3293909 | MX379766        |                 | JP6657381       | CN106685578     |
| FR (EP) 3293909 | JP6612895       | VN10027384      | JP7051914       |                 |
| GB (EP) 3293909 | JP6875040       | KR10-1970082    |                 | BR112018000842  |
| IT (EP) 3293909 |                 | CN107078790     | VN10030018      | VN10033106      |
| NL (EP) 3293909 | VN10032686      | US10893438      | KR10-2096939    | KR10-2053068    |
| SE (EP) 3293909 | KR10-2193063    | US11223973      | KR10-2137074    | CN107432005     |
|                 | KR10-2231453    | IN351274        | US10499336      | US11350359      |
| CN107182076     | US10536988      | JP6839225       | CN106604203     | AU2015401995    |
|                 | CN107535006     | JP6856524       | US11082923      | ZA2018/00862    |
| VN10028219      | AU2015396027    | JP7066023       | DE (EP) 3355595 | RU2687162       |
| KR10-1995941    | ZA201708149     | IDP000078154    | EP3355595       | JP6534488       |
| US10341067      | RU2669586       |                 | FR (EP) 3355595 | IDP000074868    |
| CN106576385     | RU2689125       | KR10-1849212    | GB (EP) 3355595 |                 |
| US10855415      | CA2987288       | US10440715      | IT (EP) 3355595 | CN105531974     |
| CH (EP) 3496507 | DE (EP) 3294036 | CN105830516     | JP6786596       |                 |
| DE (EP) 3496507 | EP3294036       | US10893524      |                 | US10034254      |
| EP3496507       | ES (EP) 3294036 | JP7074624       | US10616384      | CN105359596     |
| GB (EP) 3496507 | FR (EP) 3294036 | US9936502       | CN106879070     |                 |
| IE (EP) 3496507 | GB (EP) 3294036 |                 | DE (EP) 3379873 | KR10-2011700    |
| DE (EP) 3163970 | NL (EP) 3294036 | CN107852769     | EP3379873       | CN107211323     |
| EP3163970       | SE (EP) 3294036 |                 | FR (EP) 3379873 | DE (EP) 3248410 |
|                 | CA3091314       | KR10-2134352    | GB (EP) 3379873 | EP3248410       |
| CN107615805     | MX381657        | KR10-2243422    |                 | GB (EP) 3248410 |
| US10784985      | JP6696637       | US10615936      | US10764413      | VN33099         |
| DE (EP) 3306975 | JP7092430       | CN106487489     |                 | JP65050869      |
| EP3306975       | IDP000065194    | CN108199820     | US10340964      |                 |
| FR (EP) 3306975 |                 | CN108200000     | CN105850222     | BR112013033147  |
| GB (EP) 3306975 | VN10032074      | CN109412774     | US10686478      | KR10-1540372    |
| NL (EP) 3306975 | KR10-2215932    | US10944531      | US11025286      | CN102843785     |
|                 | CN106953721     | AU2016316276    | DE (EP) 3172937 | MY179124-A      |
| KR10-2063192    | US10819478      | DE (EP) 3337077 | EP3172937       | DE (EP) 2706802 |
| KR10-2120279    | AU2016384965    | EP3337077       |                 | EP2706802       |
| KR10-2164280    | RU2689999       | ES (EP) 3337077 | VN10031260      | ES (EP) 2706802 |
| US10425936      | DE (EP) 3389211 | FR (EP) 3337077 | KR10-2181737    | FI (EP) 2706802 |
| US10624085      | EP3389211       | GB (EP) 3337077 | CN107509252     | FR (EP) 2706802 |



SISVEL



|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| GB (EP) 2706802 | CN105981467     |                 | JP6559891       | DE (EP) 3681113 |
| NL (EP) 2706802 |                 | KR10-2028661    | IDP000076096    | EP3681113       |
| SE (EP) 2706802 | KR10-1651760    | US10616882      |                 | ES (EP) 3681113 |
| AU2012265443    | DE (EP) 2747329 | US10645687      | CN106559192     | FR (EP) 3681113 |
| RU2547137       | EP2747329       | CN106487737     |                 | GB (EP) 3681113 |
| DE (EP) 2999291 | FR (EP) 2747329 | CN108551434     | CN106688261     | IT (EP) 3681113 |
| EP2999291       | GB (EP) 2747329 | CN110545165     |                 | NL (EP) 3681113 |
| FR (EP) 2999291 | AU2012331846    | SG11201801055T  | CN104254136     | SE (EP) 3681113 |
| GB (EP) 2999291 | IN328121        | US11265873      |                 | TR (EP) 3681113 |
| IT (EP) 2999291 | JP5819002       | AU2016312080    | US10389565      | MX389422        |
| PT (EP) 2999291 | US9596614       | ZA2018/00863    | CN106922212     | JP6591674       |
| IN374221        |                 | DE (EP) 3334112 |                 | IDP000074859    |
| US9655136       | KR10-2070962    | EP3334112       | US10149322      |                 |
|                 | CN107455002     | ES (EP) 3334112 | CN105900513     | DE (EP) 3335507 |
| CN104066145     | US10812306      | FR (EP) 3334112 | US10827527      | EP3335507       |
| CN107580333     | US10812307      | GB (EP) 3334112 | DE (EP) 3094150 | ES (EP) 3335507 |
| US10959266      | CN111866843     | IT (EP) 3334112 | EP3094150       | FR (EP) 3335507 |
| DE (EP) 2978273 | US11398938      | NL (EP) 3334112 | ES (EP) 3094150 | GB (EP) 3335507 |
| EP2978273       | VN27838         | PL (EP) 3334112 | FR (EP) 3094150 | IT (EP) 3335507 |
| FR (EP) 2978273 | DE (EP) 3282660 | SE (EP) 3334112 | IT (EP) 3094150 | NL (EP) 3335507 |
| GB (EP) 2978273 | EP3282660       | TR (EP) 3334112 | NL (EP) 3094150 | SE (EP) 3335507 |
| DE (EP) 3386262 | ES (EP) 3282660 | DE (EP) 3657749 | SE (EP) 3094150 |                 |
| EP3386262       | FR (EP) 3282660 | DK (EP) 3657749 |                 | CN104094652     |
| ES (EP) 3386262 | GB (EP) 3282660 | EP3657749       | KR10-2225300    | US10674539      |
| GB (EP) 3386262 | IT (EP) 3282660 | FI (EP) 3657749 | CN107787048     | CN108601090     |
| IT (EP) 3386262 | PL (EP) 3282660 | GB (EP) 3657749 | US11026259      | CH (EP) 2749098 |
| NL (EP) 3386262 | SE (EP) 3282660 | IT (EP) 3657749 | ZA2018/08125    | DE (EP) 2749098 |
|                 | TR (EP) 3282660 | SE (EP) 3657749 | RU2712430       | EP2749098       |
| KR10-1805560    | IN366643        | MX383648        | IN408376        | FR (EP) 2749098 |
| CN104378828     | DE (EP) 3675445 | JP6463552       | JP6680906       | GB (EP) 2749098 |
| VN24162         | EP3675445       |                 | JP6863659       | NL (EP) 2749098 |
| DE (EP) 3035767 | ES (EP) 3675445 | CN106464636     |                 | DE (EP) 3030035 |
| EP3035767       | FR (EP) 3675445 |                 | BR112018010247  | EP3030035       |
| JP6177437       | GB (EP) 3675445 | CN107113266     | BR122020009992  | IT (EP) 3030035 |
|                 | HU (EP) 3675445 |                 | KR10-2109509    | JP5807317       |
| CN106937357     | IT (EP) 3675445 | CN106605436     | KR10-2220247    | US9992796       |
|                 | SE (EP) 3675445 |                 | US10616027      |                 |
| US10602542      | JP6616429       | CN106900073     | CN106789761     | DE (EP) 2939466 |
| CN106937358     | JP6965326       | US10863501      | US10686640      | EP2939466       |
| DE (EP) 3389312 |                 | DE (EP) 3376815 | CN108540412     | ES (EP) 2939466 |
| EP3389312       | CN106685618     | EP3376815       | CN109462560     | FR (EP) 2939466 |
|                 |                 | FR (EP) 3376815 | US10999119      | GB (EP) 2939466 |
| KR10-1955615    | KR10-2116361    | GB (EP) 3376815 | AU2016358881    | IT (EP) 2939466 |
| US10470223      | US10574398      |                 | ZA2018/03521    | NL (EP) 2939466 |
| CN105556914     | CN106487476     | CN107852745     | RU2684640       |                 |
| US11252766      | US11075717      |                 | DE (EP) 3370378 | BR112018002902  |
| VN25467         | CN112511267     | KR10-2103308    | EP3370378       | KR10-2104947    |
| DE (EP) 3086521 | DE (EP) 3313012 | CN106603211     | ES (EP) 3370378 | US10397037      |
| EP3086521       | EP3313012       | US11122578      | FR (EP) 3370378 | US10454737      |
| FR (EP) 3086521 | ES (EP) 3313012 | CN112491521     | GB (EP) 3370378 | CN106954202     |
| GB (EP) 3086521 | FR (EP) 3313012 | AU2016343378    | IT (EP) 3370378 | CN108449728     |
| IT (EP) 3086521 | GB (EP) 3313012 | ZA2018/02799    | NL (EP) 3370378 | US11128508      |
| NL (EP) 3086521 | IT (EP) 3313012 | RU2686852       | SE (EP) 3370378 | MY189128-A      |
| JP6478249       | SE (EP) 3313012 | VN31267         | TR (EP) 3370378 | AU2017205032    |
|                 | JP6568657       | MX387244        | CA3006017       | ZA2018/01165    |



SISVEL



|                 |                 |                 |                 |             |
|-----------------|-----------------|-----------------|-----------------|-------------|
| RU2700193       | IDP000073620    | SE (EP) 3407518 |                 |             |
| CA2997038       |                 | TR (EP) 3407518 | KR10-2021000    | CN105376859 |
| DE (EP) 3694133 | BR112018073044  | CA3023848       | US10439699      |             |
| EP3694133       | KR10-2209419    | MX386114        | US10790891      | CN106533522 |
| ES (EP) 3694133 | CN108599823     | JP6692927       | AU2015401078    |             |
| GB (EP) 3694133 | US10924227      | IDP000075547    | RU268957        | CN106465405 |
| HU (EP) 3694133 | AU2017262875    |                 | CA2990966       |             |
| IT (EP) 3694133 | RU2712122       | US10542557      | DE (EP) 3301963 | CN107210847 |
| VN30744         | DE (EP) 3407518 | CN107113782     | EP3301963       |             |
| DE (EP) 3340674 | EP3407518       | DE (EP) 3241391 | FR (EP) 3301963 | US10531497  |
| EP3340674       | ES (EP) 3407518 | EP3241391       | GB (EP) 3301963 |             |
| FR (EP) 3340674 | FR (EP) 3407518 | FR (EP) 3241391 | IN365638        | CN106550377 |
| GB (EP) 3340674 | GB (EP) 3407518 | GB (EP) 3241391 | JP6549739       |             |
| NL (EP) 3340674 | IT (EP) 3407518 | US9949285       | JP7105740       |             |
| MX376899        | NL (EP) 3407518 |                 |                 |             |
| JP6705895       | PL (EP) 3407518 | CN102843755     | CN111212012     |             |

**Mediatek**

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| DE (EP) 3061296 | GB (EP) 3061296 |                 | FR (EP) 3107346 |
| EP3061296       |                 | DE (EP) 3107346 | GB (EP) 3107346 |
| FR (EP) 3061296 | US10187124      | EP3107346       |                 |

**Panasonic**

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| US10582542      | DE (EP) 3400690 | EP3510820       | US11109421      |
| KR10-2101603    | EP3400690       | ES (EP) 3510820 | SG11201803165V  |
| KR10-2161973    | ES (EP) 3400690 | FR (EP) 3510820 | RU2713599       |
| US11129207      | FR (EP) 3400690 | GB (EP) 3510820 | DE (EP) 3370470 |
| RU2732066       | GB (EP) 3400690 | IT (EP) 3510820 | EP3370470       |
| MX379550        | IT (EP) 3400690 | NL (EP) 3510820 | ES (EP) 3370470 |
| CO38072         | SE (EP) 3400690 | JP7038109       | FI (EP) 3370470 |
| JP6948622       | TR (EP) 3400690 |                 | FR (EP) 3370470 |
| JP7122702       | DE (EP) 3641171 | US10447519      | GB (EP) 3370470 |
| IDP000079376    | EP3641171       | CN108476189     | IT (EP) 3370470 |
|                 | ES (EP) 3641171 | US11245559      | NL (EP) 3370470 |
| US10530621      | FR (EP) 3641171 | DE (EP) 3403383 | TR (EP) 3370470 |
| US10826737      | GB (EP) 3641171 | EP3403383       | VN33819         |
| CN108141304     | IT (EP) 3641171 | GB (EP) 3403383 | IN377270        |
| CN108476190     | NL (EP) 3641171 | BE (EP) 3629537 | MX380482        |
| US11451422      | IN384633        | CH (EP) 3629537 | JP6735477       |
| CN110601805     | JP6748970       | DE (EP) 3629537 | JP6909970       |
| CN110635886     | JP6975920       | EP3629537       | US10568044      |
| AU2016385204    | JP6782467       | FR (EP) 3629537 | CN108370545     |
| RU2718741       | JP6970939       | GB (EP) 3629537 | US11026185      |
| ZA2018/04356    | JP71659115      | IE (EP) 3629537 | JP6857852       |
| DE (EP) 3371907 | IDP000073562    | LI (EP) 3629537 | JP7065453       |
| EP3371907       |                 | LU (EP) 3629537 |                 |
| FR (EP) 3371907 | US11006461      | MC (EP) 3629537 | US10708954      |
| GB (EP) 3371907 | DE (EP) 3510820 | JP6830200       | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 | JP6857852       |
|                 |                 |                 | JP7065453       |
|                 |                 |                 | US10708954      |
|                 |                 |                 | CN108029147     |
|                 |                 |                 | US11109421      |
|                 |                 |                 | SG11201803165V  |
|                 |                 |                 | RU2713599       |
|                 |                 |                 | DE (EP) 3370470 |
|                 |                 |                 | EP3370470       |
|                 |                 |                 | ES (EP) 3370470 |
|                 |                 |                 | FI (EP) 3370470 |
|                 |                 |                 | FR (EP) 3370470 |
|                 |                 |                 | GB (EP) 3370470 |
|                 |                 |                 | IT (EP) 3370470 |
|                 |                 |                 | NL (EP) 3370470 |
|                 |                 |                 | TR (EP) 3370470 |
|                 |                 |                 | VN33819         |
|                 |                 |                 | IN377270        |
|                 |                 |                 | MX380482        |
|                 |                 |                 | JP6735477       |
|                 |                 |                 | JP6909970       |
|                 |                 |                 | US10568044      |
|                 |                 |                 | CN108370545     |
|                 |                 |                 | US11026185      |
|                 |                 |                 |                 |



SISVEL



GB (EP) 3536120  
JP7083824

US11057172  
JP6967021

US11071140  
JP7075392

KR10-2412704  
US11228409  
JP7086925

US11405957  
JP6968059

**Philips**

KR10-1483665  
CN101523756  
DE (EP) 2074708  
EP2074708  
FR (EP) 2074708  
GB (EP) 2074708  
IN303934  
US8331878  
TWI436608  
  
CN101960899  
KR10-1594545

KR10-1630868  
DE (EP) 2263407  
EP2263407  
ES (EP) 2263407  
FR (EP) 2263407  
GB (EP) 2263407  
IT (EP) 2263407  
NL (EP) 2263407  
TR (EP) 2263407  
JP5503561  
US9497744  
TWI471043

CN102823177  
RU2574854  
JP5872538  
US8995497  
US9438327  
TWI549446  
  
IN264508  
US7826556  
  
US10348613

US10686553  
  
US8527855  
  
KR10-1545003  
CN102017448  
DE (EP) 2274836  
EP2274836  
FR (EP) 2274836  
GB (EP) 2274836  
TR (EP) 2274836

IN356124  
JP5658658  
US8665769  
TWI467949  
  
US8495230  
  
US7519032

**Wilus – SK Telecom**

KR10-1632894  
KR10-2131654  
KR10-2333023  
US10256958  
CN106664283  
US10911196  
US9813210  
  
US10313077  
KR10-2178131  
KR10-2231306  
KR10-2231309  
US10651992  
CN107735994  
US11128421  
  
US10554370  
KR10-2183477  
KR10-2249866  
KR10-2411783  
CN107925514  
US11018836  
  
US10785795  
KR10-2173322  
KR10-2305933  
KR10-2306040  
CN108141889  
US11375537

US11375538  
DE (EP) 3367743  
EP3367743  
ES (EP) 3367743  
FR (EP) 3367743  
GB (EP) 3367743  
IT (EP) 3367743  
NL (EP) 3367743  
JP6568315  
JP6813635  
JP7136876  
  
US10764924  
KR10-2371753  
KR10-2464053  
KR10-2464059  
CN108353425  
US11330628  
US11330629  
  
US10616819  
KR10-2163572  
KR10-2268908  
KR10-2268912  
CN108370585  
US11122495  
US11122496  
  
KR10-2342150

KR10-2425184  
KR10-2445925  
CN109156033  
US11129163  
  
US10631335  
KR10-2128284  
KR10-2239511  
KR10-2239514  
CN109156038  
US11272537  
US11324039  
DE (EP) 3439417  
EP3439417  
ES (EP) 3439417  
FR (EP) 3439417  
GB (EP) 3439417  
IT (EP) 3439417  
NL (EP) 3439417  
IN392250  
JP6672525  
JP6987909  
JP7005665  
  
US10623964  
KR10-2128286  
KR10-2164966  
KR10-2239519  
CN109076614

US11140556  
US11153759  
  
US10659196  
KR10-2134147  
KR10-2346684  
KR10-2353831  
CN108886712  
US11196513  
US11258543  
  
CN109075907  
  
US10880924  
  
KR10-2371756  
KR10-2411787  
KR10-2415048  
CN109314882  
  
US10873973  
KR10-2344180  
KR10-2390641  
KR10-2442356  
  
US11483865  
US11503636  
  
US10491355  
KR10-2072326

KR10-2157470  
KR10-2190240  
CN109417817  
US11095416  
US11405161  
JP6740447  
JP7091395  
JP7091396  
  
KR10-2407199  
KR10-2442012  
KR10-2442014  
US11116035  
DE (EP) 3512289  
EP3512289  
ES (EP) 3512289  
FR (EP) 3512289  
GB (EP) 3512289  
IT (EP) 3512289  
NL (EP) 3512289  
JP7076452  
  
US10966251  
  
US10931396  
KR10-2262155  
KR10-2353826  
KR10-2432953  
CN110089148



SISVEL



|              |              |              |              |                 |
|--------------|--------------|--------------|--------------|-----------------|
| JP6874139    |              | KR10-2130456 | KR10-2367773 | US11356947      |
| US10536979   | KR10-2096431 | KR10-2367779 | KR10-2433616 | US11470595      |
| KR10-2173329 | KR10-2218970 | KR10-2433612 | US10666405   | DE (EP) 3396925 |
| KR10-2229580 | KR10-2230309 | US10484222   | CN107534973  | EP3396925       |
| KR10-2229583 | US10313966   | US11012276   | US11283570   | ES (EP) 3396925 |
| US10904927   | US10849060   |              | US11290233   | FR (EP) 3396925 |
| CN110115093  |              | KR10-2163485 | IN383714     | GB (EP) 3396925 |
| US11368987   | US10085243   | KR10-2283170 |              | IT (EP) 3396925 |
| JP6746805    | KR10-2117635 | KR10-2283173 | KR10-2231308 | NL (EP) 3396925 |
| JP7055177    | KR10-2249765 | US10588149   | KR10-2363476 | JP6609067       |
| JP7102471    | KR10-2309050 | US11051340   | KR10-2433614 | JP6898412       |
|              | US10708890   | US11516849   | US10412621   |                 |
| US10567047   | US10893511   |              | CN107624236  | US10750403      |
| KR10-2082093 | US11350390   | US10667292   | US10986532   | KR10-2349919    |
| KR10-2259020 |              |              |              | KR10-2417274    |
| KR10-2259024 | KR10-2054052 | KR10-2104274 | KR10-2072283 | KR10-2426759    |
| CN110140374  | KR10-2283162 | KR10-2178127 | KR10-2188794 | US11304094      |
| US11159210   | KR10-2346678 | KR10-2188792 | KR10-2203133 |                 |
| US11171695   | US10327262   | US10321457   | US10512108   | KR10-2349928    |
| JP7009484    | US10750540   | US11102778   | US10660136   | KR10-2417275    |
|              |              |              | CN107637005  | KR10-2425185    |
| US11284475   | KR10-2054053 | KR10-2309047 | US11153916   | CN108886710     |
|              | KR10-2054117 | KR10-2427862 |              | US11240705      |
| KR10-1617410 | KR10-2082095 | KR10-2442355 | KR10-2297623 | DE (EP) 3442258 |
| KR10-2082027 | US10575332   | CN107006038  | KR10-2356060 | EP3442258       |
| KR10-2082094 | CN106797662  | US10701732   | KR10-2390646 | ES (EP) 3442258 |
| US10560965   | JP6368035    | US11317441   | US10721175   | FR (EP) 3442258 |
| CN106465424  | JP6535403    | US11375544   | US11201830   | GB (EP) 3442258 |
| CN111106886  | JP7007329    | IN400531     | US11240166   | IT (EP) 3442258 |
| US9655145    | US9763268    |              |              | NL (EP) 3442258 |
| US9872315    | US9918343    | KR10-2129283 | US10932295   | JP6759354       |
|              |              | KR10-2167924 | US11388758   | JP6991290       |
| KR10-2249762 | KR10-2437919 | KR10-2278750 | US11395349   | JP6992138       |
| KR10-2417162 | CN107079481  | US10582520   |              |                 |
|              | US10917189   | US11006434   | US10841931   | KR10-2173425    |
| KR10-2102506 | US11515957   | US11363613   |              | KR10-2239504    |
| KR10-2215127 | US11515958   |              | KR10-2350994 | KR10-2239509    |
| KR10-2216662 |              | US10477589   | US11477844   | US10660139      |
| US10506553   | KR10-2344188 | US11140718   |              | US11330640      |
| CN106416412  | KR10-2464370 |              | KR10-2272713 | US11343859      |
| US11382067   | KR10-2464381 | KR10-2054054 | KR10-2309054 | DE (EP) 3567970 |
|              | US10772109   | KR10-2296339 | KR10-2309057 | EP3567970       |
| KR10-2054043 | US11284411   | KR10-2468398 |              | ES (EP) 3567970 |
| KR10-2157120 | US11477799   | US10411870   | US10588128   | FR (EP) 3567970 |
| KR10-2218971 |              | CN107251472  | US11259298   | GB (EP) 3567970 |
| US10278210   | US10820233   | US11153058   |              | IT (EP) 3567970 |
| CN106465418  | KR10-2268844 |              | US10687281   | NL (EP) 3567970 |
| US10813139   | KR10-2311278 | US10305638   | KR10-2138618 | JP6911127       |
| US11272549   | KR10-2349914 | US10911186   | KR10-2266148 |                 |
| IN354061     | US11470506   |              | KR10-2266149 |                 |
|              |              | KR10-2231307 | CN108702375  |                 |