

Patent portfolio created by Fractus

Multilevel antennas

US7505007 (B2), US8941541 (B2), US8976069 (B2), US9000985 (B2), US9240632 (B2)

Interlaced multiband antenna arrays

US6937191 (B2), US9905940(B2)

Space-filling miniature antennas

US8212726 (B2), US8207893 (B2), US8610627 (B2), US8558741 (B2), US9331382 (B2), US10355346 (B2)

Miniature broadband ring-like microstrip patch antenna

US6870507 (B2)

Dual-band dual-polarized antenna array

US6937206 (B2), ES2287124 (T3)

Multilevel and space-filling ground planes for miniature and multiband antennas

US7362283 (B2), US7688276 (B2), US7911394 (B2), US8581785 (B2)

Multifrequency microstrip patch antenna with parasitic coupled elements

US7202818 (B2)

Loaded antenna

US7312762 (B2), US7541997 (B2), US9755314 (B2), EP1444751 (B1) [ES2288161 (T3)]

Multiband antenna

US7215287 (B2), US7439923 (B2), US7920097 (B2), US8228245 (B2), US8723742 (B2)

Multiband antenna for handheld terminal

US7486242 (B2)

Undersampled microstrip array using multilevel and space filling shaped elements

US7310065 (B2)

Antenna with one or more holes

US7471246 (B2), US7907092 (B2)

Notched-fed antenna

US7342553 (B2)

Coupled multiband antennas

US7315289 (B2), US8994604 (B2), US10135138 (B2), US16/164472

Integrated circuit package including miniature antenna

US7095372 (B2), US7463199 (B2), US8203488 (B2), US9077073 (B2), US9761948 (B2), US10056691 (B2), US10320079 (B2)

Multiband monopole antenna for a mobile communications device

US7411556 (B2), US7403164 (B2), US7675470 (B2), US8253633 (B2), US8674887 (B2), US8259016 (B2), KR0859580 (B1)

Broadside high-directivity microstrip patch antenna

US7423593 (B2), US8026853 (B2)

Miniature antenna having a volumetric structure

US8149171 (B2), US8593349 (B2), EP1597794 (B1) [ES2314295 (T3)]

Multiband monopole antennas for mobile communications devices

US7423592 (B2), US8456365 (B2)

Multiband monopole antennas for mobile network communication devices

US7417588 (B2)

Handset with electromagnetic bra

US7456792 (B2)

Radio frequency system in package including antenna

US7791539 (B2), US8421686 (B2)

Antenna in package with reduced electromagnetic interaction with on chip elements

US8330259 (B2)

Slim multiband antenna array for cellular base stations

US7868843 (B2)

Tunable antenna

US7924226 (B2)

Antenna structure for a wireless device with a ground plane shaped as a loop

US7782269 (B2), US8077110 (B2), US9054418 (B2), US8493280 (B2), US2015/0229022 (A1)

Shaped ground plane for radio apparatus

US7932863 (B2)

Antenna contacting assembly

US8193998 (B2)

Wireless implantable medical device

US8565891 (B2)

Handheld device with two antennas and method of enhancing the isolation between the antennas

US8115686 (B2), US8362960 (B2), US8810458 (B2)

Antenna with inner spring contact

US7990320 (B2)

Slim triple band antenna array for cellular base stations

US8497814 (B2), US8754824 (B2), US9450305 (B2), EP1935057 (B1) [ES2380580, DE602006027461], US10211519 (B2), US2018/0261910 (A1)

Slotted ground plane used as a slot antenna or used for a pifa antenna

US7872605 (B2), US8111199 (B2), US8593360 (B2)

Antenna diversity system and slot antenna component

US8531337 (B2)

Wireless portable device including internal broadcast receiver

US8472908 (B2)

Chip module, SIM card, wireless device and wireless communication method

US8196829 (B2)

Multifunction wireless device

US8738103 (B2), US9099773 (B2), US9899727 (B2), US2018/0151945 (A1)

Dual-polarized radiating element, dual-band dual-polarized antenna assembly and dual-polarized antenna array

US8354972 (B2)