

# LIST OF PATENTS

1. Pui-In Mak, Seng-Pan U, R. P. Martins, "DC-Offset Canceled Programmable Gain Array for Low-Voltage Wireless LAN System and Method Using the Same", US Patent, Granted Number: 7,948,309, May 2011.
2. Man-Chung Wong, Chi-Seng Lam, Ning-Yi Dai, "Capacitive-coupling STATCOM and its control", Chinese Patent for Invention, Granted No. 200710196710.6, May 2011.
3. Pui-In Mak, Seng-Pan U, R. P. Martins, "Two-Step Channel Selection for Wireless Transmitter Front-Ends", US Patent, Granted Number: 8,019,290, Sep. 2011.
4. Pui-In Mak, Seng-Pan U, R. P. Martins, "Switched Current-Resistor Programmable Gain Array for Low-Voltage Wireless LAN System and Method Using the Same", US Patent, Granted Number: 8,229,382, Jul. 2012.
5. Ning-Yi Dai, Man-Chung Wong, Ying-Duo Han, "Generalized PWM methods and PW modulator for multi-level three-phase four-wire voltage source converter", Chinese Patent, Publication number: 200710102959.6, May 2012.
6. Man-Chung Wong, Ning-Yi Dai, Keng-Weng Lao, Chi-Kong Wong, "Single-phase power quality conditioner for power supply system in electrified Railway", Chinese Patent, Publication number: No. 201210051065.X, Feb. 2012.
7. Man-Chung Wong, Ning-Yi Dai, Wen-Chen Zhang, Chi-Kong Wong, "A single-phase grid-connected inverter with power quality conditioning capability", Chinese Patent, Application number: No. 2012120400404770, Nov. 2012.
8. Man-Chung Wong, Ning-Yi Dai, Keng-Weng Lao, Chi-Kong Wong, "Railway power conditioner for co-phase traction supply system", US Patent, Application Number:13/709,236, Dec. 2012.
9. Yan Zhu, Chi-Hang Chan, U-Fat Chio, Sai-Weng Sin, Seng-Pan U, R. P. Martins, Franco Maloberti, "N-Bits Successive Approximation Register Analog-to-Digital Converting System", US Patent, Granted Number: 8,344,931, Jan. 2013.
10. Sai-Weng Sin, He-Gong Wei, Li Ding, Yan Zhu, Chi-Hang Chan, U-Fat Chio, Seng-Pan U, R. P. Martins, Franco Maloberti, "A Time-Inteleased Pipelined-SAR Analog to Digital Converter with Low Power Consumption", US Patent, Granted Number: 8,427,355, Apr. 2013.
11. He-Gong Wei, U-Fat Chio, Sai-Weng Sin, Seng-Pan U, R. P. Martins, "Delay Generator", US Patent, Granted Number: 8,441,295, May 2013.
12. U-Fat Chio, He-Gong Wei, Yan Zhu, Sai-Weng Sin, Seng-Pan U, R. P. Martins, Franco Maloberti, "Cascade Analog to Digital Converting System", US Patent, Granted Number: 8,466,823, Jun. 2013.
13. Sai-Weng Sin, Li Ding, Yan Zhu, He-Gong Wei, Chi-Hang Chan, U-Fat Chio, Seng-Pan U, R. P. Martins, Franco Maloberti, "Analog to Digital Converter Circuit", Taiwan Patent, Granted Number: 201242261, Mar. 2014.
14. He-Gong Wei, U-Fat Chio, Sai-Weng Sin, Seng-Pan U, R. P. Martins, "Delay Generator", Taiwan Patent, Granted Number: 201246793, Mar. 2014.
15. Man-Chung Wong, Chi-Seng Lam, Wai-Hei Choi, "Control strategy of adaptive dc-link voltage controlled LC-VSI device for reactive power compensation", Chinese Patent for Invention, Granted, No. 201210051133.2, May 2014.
16. Zushu Yan, Pui-In Mak, Man-Kay Law, R. P. Martins, "Frequency Compensation Techniques for Low-Power and Small-Area Multistage Amplifiers", US Patent, Granted Number: 8,963,639, Feb. 2015.
17. Ka-Fai Un, Pui-In Mak, R. P. Martins, "Wireless Transmitter", US Patent, Granted Number: 9,037,100, May 2015.
18. Ka-Fai Un, Pui-In Mak, R. P. Martins, "Wideband Driver Amplifier", US Patent, Granted Number: 9,172,337, Oct. 2015.

# LIST OF PATENTS

19. Ka-Fai Un, Pui-In Mak, R. P. Martins, "Poly-Phase Local Oscillator", US Patent, Granted number: 9,093,951, Jul. 2015.
20. Yan Zhu, Chi-Hang Chan, Seng-Pan U, R. P. Martins, "Sampling front-end for analog to digital converter", US patent, Granted Number: 8,947,283, Feb. 2015.
21. Chi-Seng Lam, Man-Chung Wong, Wai-Hei Choi, Ying-Duo Han, "Adaptive dc-link voltage controlled LC coupling hybrid active power filters for reactive power compensation", US Patent, Granted Number: 9,122,296, Sept. 2015.
22. Zhicheng Lin, Pui-In Mak, R. P. Martins, "ZigBee Receiver Exploiting an RF-to-BB Current-Reuse Mixer and Hybrid Filter Topology", US Patent, Application Number: 14/254,318, Granted Number: 9,237,055, Jan. 2016.
23. Pui-In Mak, Fujian Lin, R. P. Martins, "RF-to-BB-Current-Reuse Wideband Receiver with a Single-MOS Pole-Zero LPF", US Patent, Granted Number: 9,270,314, Feb. 2016.
24. Wei-Han Yu, Chak-Fong Cheang, Ka-Fai Un, Pui-In Mak, R. P. Martins, "Non-recursive digital calibration for joint-elimination of transmitter and receiver I/Q imbalances with minimized add-on hardware", US Patent, Granted Number: 9,276,798, Mar. 2016.
25. Zhicheng Lin, Pui-In Mak, R. P. Martins, "IF-Noise-Shaping Transistorized Current-Mode Lowpass Filter Utilizing Cross-Coupled Transistors", US Patent, Granted Number: 9,306,540, Apr. 2016.
26. Pui-In Mak, Fujian Lin, R. P. Martins, "An RF-to-BB-Current-Reuse Wideband Receiver with Parallel N-Path Active/Passive Mixers", US Patent, Granted Number: 9,356,636, May. 2016.
27. Pui-In Mak, Zhicheng Lin, R. P. Martins, "Gain-Boosted N-Path Bandpass Filter", US Patent, Granted Number: 9,374,063, Jun. 2016.
28. Pui-In Mak, Zhicheng Lin, R. P. Martins, "Ultra-Low-Voltage Current-Reuse Voltage-Controlled Oscillator and Transconductance-Capacitor Filter", US Patent, Granted Number: 9,444,431, Sept. 2016.
29. Zhicheng Lin, Pui-In Mak, R. P. Martins, "Complex-Pole Load Offering Concurrent Image Rejection and Channel Selection", US Patent, Granted Number: 9,479,140, Oct. 2016.