

Title (en)  
COMPOSITE POWER AMPLIFIER

Title (de)  
VERBUNDLEISTUNGSVERSTÄRKER

Title (fr)  
AMPLIFICATEUR DE PUISSANCE COMPOSITE

Publication  
**EP 3391537 A1 20181024 (EN)**

Application  
**EP 16700217 A 20160111**

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Abstract (en)  
[origin: WO2017121455A1] A composite power amplifier system (100) is described. The composite power amplifier system comprises an input node (102) configured to receive an input signal, an output node (104) configured to output an output signal, and at least a first power amplifier (106), a second power amplifier (108), a third power amplifier (110), and a fourth power amplifier (112) together configured in a multi way Doherty structure connected between the input node (102) and the output node (104). The first power amplifier (106) and the second power amplifier (108) are configured as a Chireix pair of power amplifiers and configured to operate as a main power amplifier in the multi way Doherty structure. The third power amplifier (110) is configured to operate as a first auxiliary power amplifier in the multi way Doherty structure, and the fourth power amplifier (112) is configured to operate as a second auxiliary power amplifier in the multi way Doherty structure. Furthermore, the present invention also relates to a transmitter comprising such a composite power amplifier.

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