

Title (en)

Antenna feed and method of configuring an antenna feed

Title (de)

Antennenspeisung und Verfahren zur Konfiguration einer Antennenspeisung

Title (fr)

Système d'alimentation d'antenne et procédé de configuration d'une alimentation d'antenne

Publication

EP 2975688 B1 20191009 (EN)

Application

EP 14306148 A 20140715

Priority

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Abstract (en)

[origin: EP2975688A1] An antenna feed for generating signals for an active antenna array including multiple antennas for transmitting transmission beams having selected tilt angles, the antenna feed comprising a digital beamformer operable to receive an input broadband signal and to generate a plurality N of output broadband signals, each having an associated phase and amplitude, a plurality N of transmission signal generators, each operable to receive one of the said plurality N of output broadband signals and to generate a corresponding plurality N of first RF signals, and a feed network comprising a power split network operable to receive the said plurality N of first RF signals and to generate a plurality P of second RF signals, each having an associated amplitude and an associated phase shift applied using a variable phase shifter of a phase shift network, the feed network operable to supply respective ones of the plurality P of second RF signals to respective ones of the multiple antennas, M, of the said active antenna array, where $P \geq M > N$.

IPC 8 full level

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Citation (examination)

- CN 103633452 A 20140312 - SHENZHEN HUAWEI ANJIEXIN ELECTRICAL CO LTD & EP 3067988 A1 20160914 - HUAWEI TECH CO LTD [CN]
- WO 0129926 A1 20010426 - DELTEC TELESYSTEMS INTERNAT LT [NZ], et al

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