

Title (en)

HYBRID CIRCUIT, POWER SUPPLY CIRCUIT, ANTENNA DEVICE, AND POWER SUPPLY METHOD

Title (de)

HYBRIDSCHALTUNG, STROMVERSORGUNGSSCHALTUNG, ANTENNENVORRICHTUNG UND STROMVERSORGUNGSVERFAHREN

Title (fr)

CIRCUIT HYBRIDE, CIRCUIT D'ALIMENTATION ÉLECTRIQUE, DISPOSITIF D'ANTENNE ET PROCÉDÉ D'ALIMENTATION ÉLECTRIQUE

Publication

EP 3422465 B1 20201223 (EN)

Application

EP 17756406 A 20170220

Priority

- JP 2016032743 A 20160224
- JP 2017006061 W 20170220

Abstract (en)

[origin: EP3422465A1] Provided is a small-sized power supply circuit. A hybrid circuit used as a power supply circuit for supplying electric power to an antenna element includes: a loop-shaped line that includes four partial lines having mutually equal electrical lengths and characteristic impedances; first and second input lines that branch respectively from first and second branch points adjacent to each other via a first partial line of the loop-shaped line; first and second output lines that branch respectively from third and fourth branch points adjacent to each other via a second partial line opposite to the first partial line of the loop-shaped line; and third and fourth output lines that branch respectively from the first and second branch points. An input impedance of each of the first and second input lines is equal to a quarter of the characteristic impedance of the partial line, and an output impedance of each of the first to fourth output lines is equal to half of the characteristic impedance of the partial line.

IPC 8 full level

H01P 5/22 (2006.01); **H01Q 9/04** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP)

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