

Title (en)

ANTENNA FOR A WIRELESS COMMUNICATION DEVICE AND SUCH A DEVICE

Title (de)

ANTENNE FÜR EIN DRAHTLOSES KOMMUNIKATIONSGERÄT UND EIN SOLCHES GERÄT

Title (fr)

ANTENNE POUR UN DISPOSITIF DE COMMUNICATION SANS FIL ET UN TEL DISPOSITIF

Publication

EP 4197063 A4 20231004 (EN)

Application

EP 21926086 A 20210218

Priority

CN 2021076672 W 20210218

Abstract (en)

[origin: WO2022174364A1] An antenna for a wireless communication device, in particular a wireless access point is disclosed. The antenna comprises at least one radiating element configured to radiate electromagnetic radiation in response to an input signal, wherein the input signal extends over an operating frequency band, a feeding network configured to feed the input signal from an input port of the feeding network to the at least one radiating element for driving the at least one radiating element with the input signal to radiate electromagnetic radiation and a narrowband band-stop filter configured to filter the input signal. The narrowband band-stop filter comprises a conducting line resonator coupled to the feeding network, wherein the conducting line resonator is configured to filter the input signal in at least one stopband of the operating frequency band and has a length that is an integer multiple of the quarter wavelength of a stopband frequency.

IPC 8 full level

H01Q 21/00 (2006.01); **H01P 1/203** (2006.01); **H01Q 1/22** (2006.01); **H01Q 5/335** (2015.01); **H01Q 9/28** (2006.01); **H01Q 9/40** (2006.01); **H01Q 21/20** (2006.01)

CPC (source: EP)

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Citation (search report)

- [A] CN 103943960 A 20140723 - UNIV BEIJING POSTS & TELECOMM
- [A] US 7847736 B2 20101207 - CHANNABASAPPA ESWARAPPA [US]
- [A] US 2014218259 A1 20140807 - LEE JEONG HAE [KR], et al
- [A] JP 2008172455 A 20080724 - NAT INST INF & COMM TECH
- [A] US 2020153070 A1 20200514 - SHIMURA HAJIME [JP]
- [A] KOLEY SANTASRI ET AL: "A PATTERN RECONFIGURABLE ANTENNA FOR WLAN AND WIMAX SYSTEMS", PROGRESS IN ELECTROMAGNETICS RESEARCH C, vol. 66, 1 January 2016 (2016-01-01), pages 183 - 190, XP093075165, Retrieved from the Internet <URL:https://www.jpier.org/issues/reader.html?pid=16052306> DOI: 10.2528/PIERC16052306
- See references of WO 2022174364A1

Designated contracting state (EPC)

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