

Title (en)

INTERFERENCE DETECTION FOR RANDOM ACCESS FALSE ALARM REDUCTION

Title (de)

INTERFERENZDETEKTION ZUR REDUZIERUNG VON DIREKTZUGRIFFSFEHLALARMEN

Title (fr)

DÉTECTION D'INTERFÉRENCE POUR LA RÉDUCTION D'UNE FAUSSE ALARME D'ACCÈS ALÉATOIRE

Publication

EP 4014662 A1 20220622 (EN)

Application

EP 19784125 A 20190816

Priority

IB 2019056955 W 20190816

Abstract (en)

[origin: WO2021033009A1] Systems and methods are disclosed herein for random access interference detection and mitigation. Embodiments of a method performed by a base station and corresponding embodiments of a base station are disclosed. In some embodiments, a method performed by a base station in a cellular communications system comprises detecting interference on at least a portion of a random access resource for a respective cell based on either or both of: (a) one or more expected signal characteristics of a single-tone frequency hopping random access preamble received in at least a portion of the random access resource and (b) frequency hopping patterns used by one or more other cells for single-tone frequency hopping random access preambles. The method further comprises performing one or more actions to mitigate the detected interference. In this manner, false alarm reduction can be reduced.

IPC 8 full level

H04W 74/08 (2009.01)

CPC (source: EP)

H04L 5/0073 (2013.01); **H04W 74/0833** (2013.01); **H04L 5/0012** (2013.01); **H04W 72/27** (2023.01)

Citation (search report)

See references of WO 2021033009A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021033009 A1 20210225; EP 4014662 A1 20220622

DOCDB simple family (application)

IB 2019056955 W 20190816; EP 19784125 A 20190816