Title (en)
METHODS AND SYSTEMS FOR DYNAMIC SPECTRUM ARBITRAGE

Title (de)
VERFAHREN UND SYSTEME FÜR DYNAMISCHE SPEKTRUMSBEURTEILUNG

Title (fr)
PROCÉDÉS ET SYSTÈMES POUR ARBITRAGE DYNAMIQUE DE SPECTRE

Publication
EP 2974427 A4 20161019 (EN)

Application
EP 14775721 A 20140313

Priority
• US 201313800906 A 20130313
• US 2014025827 W 20140313

Abstract (en)
[origin: WO2014160106A1] Methods and system are provided for managing and monitoring allocation of RF spectrum resources based on time, space and frequency. A network may be enabled to allocate excess spectrum resources for use by other network providers on a real-time basis. Allocated resources may be transferred from one provider with excess resources to another in need of additional resources based on contractual terms or on a real-time purchase negotiations and settlements. A network may be enabled to monitor the use of allocated resources on real-time basis and off-load or allow additional users depending on the spectrum resources availability. Public safety networks may be enabled to make spectrum resources available to general public by allocating spectrum resources and monitoring the use of those resources. During an emergency, when traffic increases on a public safety network, the public safety networks may off-load bandwidth traffic to make available necessary resources for public safety users.

IPC 8 full level
H04W 16/10 (2009.01); **H04W 16/14** (2009.01)

CPC (source: EP KR)
G06Q 30/08 (2013.01 - KR); **H04W 16/10** (2013.01 - KR); **H04W 16/14** (2013.01 - EP KR); **H04W 88/18** (2013.01 - KR)

Citation (search report)
• [I] US 2011125905 A1 20110526 - BAUCKE STEPHAN [DE], et al
• [A] US 2008222021 A1 20080911 - STANFORTH PETER [US], et al
• [A] US 2012014332 A1 20120119 - SMITH CLINT [US], et al
• See references of WO 2014160106A1

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

DOCDB simple family (publication)
WO 2014160106 A1 20141002; AU 2014244093 A1 20151001; AU 2014244093 B2 20160707; BR 112015022128 A2 20170718; CA 2904634 A1 20141002; CN 105075310 A 20151118; CN 105075310 B 20170405; EA 201500892 A1 20160129; EP 2974427 A1 20160120; EP 2974427 A4 20161019; HK 1212849 A1 20160617; JP 2016519462 A 20160630; JP 6159869 B2 20170705; KR 20160061906 A 20160601; MX 2014011904 A 20141120; MX 340327 B 20160706

DOCDB simple family (application)
US 2014025827 W 20140313; AU 2014244093 A 20140313; BR 112015022128 A 20140313; CA 2904634 A 20140313; CN 201480015042 A 20140313; EA 201500892 A 20140313; EP 14775721 A 20140313; HK 16100696 A 20160121; JP 2016501979 A 20140313; KR 20157028255 A 20140313; MX 2014011904 A 20140313