

Title (en)  
METHOD FOR SEARCHING FOR USEABLE TRANSMISSION FREQUENCIES FOR TELEVISION AND RADIO BROADCASTING SYSTEMS

Title (de)  
VERFAHREN ZUR SUCHE VON NUTZBAREN SENDEFREQUENZEN FÜR TV- UND RUNDFUNKSENDER

Title (fr)  
PROCEDE DE RECHERCHE DE FREQUENCES D'EMISSION UTILES POUR EMETTEURS DE RADIODIFFUSION ET DE TELEDIFFUSION

Publication  
**EP 0992136 B1 20050126 (DE)**

Application  
**EP 98928282 A 19980516**

Priority

- DE 19727301 A 19970627
- EP 9802895 W 19980516

Abstract (en)  
[origin: WO9900920A1] The invention relates to a method for determining additional frequencies for radio broadcasting networks or similar. Using a constantly updated database of co-ordinated transmitters and a topology database, the inventive method optimises the quality of frequency planning, the necessary measurements, coverage plots etc.. The desired parameters for the new transmitter are inputted and every frequency in the chosen frequency range which fulfils the respective conditions for successful co-ordination is automatically determined by an information processing tool or an information processing device connected to the aforementioned databases. The method helps determine for example all the effects on the co-ordinated VHF broadcasting network, and tests the suitability of each frequency in an e.g. 100 kHz grid in the entire VHF band or in a partial range, according to the predetermined criteria. The method thus provides all the frequencies which can be co-ordinated in accordance with the predetermined conditions. The useable field strengths are determined and provided at the same time. The frequency planners then only need to test the frequencies given and optionally make a decision. The inventive method uses a more accurate allowance for the topography (diffraction models) in addition to the statistical propagation model, in order to increase accuracy.

IPC 1-7  
**H04H 1/00**

IPC 8 full level  
**H04B 17/00** (2006.01); **H04H 20/00** (2009.01); **H04H 20/12** (2008.01); **H04N 5/50** (2006.01)

CPC (source: EP)  
**H04H 20/12** (2013.01)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9900920 A1 19990107**; AT E288157 T1 20050215; CZ 297539 B6 20070103; CZ 474599 A3 20000614; DE 19727301 A1 19990211; DE 19727301 C2 20020829; DE 59812517 D1 20050303; EP 0992136 A1 20000412; EP 0992136 B1 20050126; HU P0002200 A2 20001128; HU P0002200 A3 20021128; PL 337525 A1 20000828

DOCDB simple family (application)  
**EP 9802895 W 19980516**; AT 98928282 T 19980516; CZ 474599 A 19980516; DE 19727301 A 19970627; DE 59812517 T 19980516; EP 98928282 A 19980516; HU P0002200 A 19980516; PL 33752598 A 19980516