

Title (en)
Signal comparison method and apparatus

Title (de)
Signalvergleichsverfahren und -vorrichtung

Title (fr)
Procédé et dispositif de comparaison de signaux

Publication
EP 1387514 A3 20081210 (EN)

Application
EP 03254607 A 20030724

Priority
GB 0217772 A 20020731

Abstract (en)
[origin: EP1387514A2] The invention provides a method and apparatus for determining the relative time difference or delay between first and second audio signals that represent substantially the same audio content. The invention also provides a method and an apparatus for determining whether two audio signals contain the same audio content. A comparison of the two audio signals is carried out using a low-bit representation of each signal that is generated using the dominant frequency within successive portions or frames of the signal. This audio representation can also be used as a means of comparing two video programmes of which the audio signal is a part. As the analysis is based on the frequencies present within the audio signal, it can for example, be performed more quickly than an analysis based on the energy of the audio signal. As a result, the determination can be made in real time, allowing it to be advantageously used in the field of broadcasting to confirm that a signal being transmitted by a regional broadcasting centre is in accordance with the master signal being sent to it by a programme originator. The invention may also be used to synchronise two like signals with each other.

IPC 1-7
H04H 7/04

IPC 8 full level
H04H 20/14 (2008.01); **H04H 60/58** (2008.01)

CPC (source: EP)
G10H 1/0008 (2013.01); **G10L 25/00** (2013.01); **H04H 20/14** (2013.01); **H04H 60/58** (2013.01); **G10H 2210/031** (2013.01); **G10H 2240/141** (2013.01); **G10H 2250/031** (2013.01)

Citation (search report)

- [X] WO 0079709 A1 20001228 - APEL STEVEN G [US]
- [X] GB 2226718 A 19900704 - BRITISH BROADCASTING CORP [GB]
- [A] WO 0104870 A1 20010118 - PAPAODYSSEUS CONSTANTIN [GR], et al
- [A] CA 2310769 A1 20010427 - NIELSEN MEDIA RES INC [US]

Cited by
EP2685450A4; EP2774391A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
EP 1387514 A2 20040204; EP 1387514 A3 20081210; GB 0217772 D0 20020911; GB 2391322 A 20040204; GB 2391322 B 20051214

DOCDB simple family (application)
EP 03254607 A 20030724; GB 0217772 A 20020731