

Title (en)  
SOUND SOURCE SPATIALIZATION SYSTEM

Title (de)  
TONQUELLE-RAUMKLANGSSYSTEM

Title (fr)  
SYSTEME DE SPATIALISATION DE SOURCES SONORES

Publication  
**EP 1658755 A1 20060524 (FR)**

Application  
**EP 03748189 A 20030627**

Priority  
• FR 0301998 W 20030627  
• FR 0208265 A 20020702

Abstract (en)  
[origin: US2005271212A1] The present invention relates to an enhanced-performance sound source spatialization system used in particular to produce a spatialization system compatible with an integrated modular avionics type system. It comprises a filter database comprising a set of head-related transfer functions specific to the listener, a data presentation processor receiving information from each source and comprising in particular a module for computing the relative positions of the sources in relation to the listener and a module for selecting the head-related transfer functions with a variable resolution suited to the relative position of the source in relation to the listener, a unit for computing said monophonic channels by convoluting each sound source with head-related transfer functions of said database estimated at said source position.

IPC 1-7  
**H04S 1/00**

IPC 8 full level  
**H04S 1/00** (2006.01)

CPC (source: EP US)  
**H04S 1/007** (2013.01 - EP US); **H04S 7/30** (2013.01 - EP US); **H04S 7/304** (2013.01 - EP US); **H04S 2400/11** (2013.01 - EP US);  
**H04S 2420/01** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**US 2005271212 A1 20051208**; AT E390029 T1 20080415; AU 2003267499 A1 20040123; AU 2003267499 B2 20080417;  
AU 2003267499 C1 20090115; CA 2490501 A1 20040115; DE 60319886 D1 20080430; DE 60319886 T2 20090423; EP 1658755 A1 20060524;  
EP 1658755 B1 20080319; ES 2302936 T3 20080801; FR 2842064 A1 20040109; FR 2842064 B1 20041203; IL 165911 A0 20060115;  
IL 165911 A 20100415; WO 2004006624 A1 20040115

DOCDB simple family (application)  
**US 51872004 A 20041221**; AT 03748189 T 20030627; AU 2003267499 A 20030627; CA 2490501 A 20030627; DE 60319886 T 20030627;  
EP 03748189 A 20030627; ES 03748189 T 20030627; FR 0208265 A 20020702; FR 0301998 W 20030627; IL 16591104 A 20041221