

Title (en)
RECIPROCAL INDEX LOOKUP FOR BTSC COMPATIBLE COEFFICIENTS

Title (de)
REZIPROK-INDEX-NACHSCHLAGEN FÜR BTSC-KOMPATIBLE KOEFFIZIENTEN

Title (fr)
TABLE DE CONSULTATION D'INDICE RECIPROQUE POUR COEFFICIENTS COMPATIBLES AVEC BTSC

Publication
EP 1618760 A4 20130320 (EN)

Application
EP 03721588 A 20030409

Priority
US 0310834 W 20030409

Abstract (en)
[origin: CA2525944A1] An algorithm calculates spectral expansion filter coefficients (712) using a value proportional to a reciprocal (720) of a feedback/feedforward signal (a) and stores the coefficients to a lookup table. The lookup table is indexed b y a pre-selected set of coefficient bits to generate a filter coefficient function. A first portion of the lookup table stores a plurality of discrete values at index points of a line segment corresponding to a filter coefficie nt function approximation, so as to generate an initial discrete value corresponding to the filter coefficient function at a value of the high orde r bits and a second portion stores a plurality of slope values, which indicate s a slope of the filter coefficient function. A linear circuit interpolates/decimates an approximation of the compression/expansion filter coefficient function based on the slope value, the initial discrete value an d a preselected set of low order bits of the reciprocal value.

IPC 8 full level
H03G 7/00 (2006.01); **H04N 5/60** (2006.01); **H04N 7/12** (2006.01); **H04R 5/00** (2006.01)

CPC (source: EP)
H03G 7/007 (2013.01); **H04N 5/602** (2013.01)

Citation (search report)
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• [XI] US 6118879 A 20000912 - HANNA CHRISTOPHER M [US]
• [IA] US 5091957 A 19920225 - ANDERSON MARK R [US], et al
• [Y] WO 9710644 A1 19970320 - QUALCOMM INC [US]
• [X] US 6192086 B1 20010220 - DARR ROGER [US]
• [A] EP 0936744 A1 19990818 - MICRONAS INTERMETALL GMBH [DE]
• [A] OET BULLETIN NO 60 ET AL: "Multichannel Television Sound Transmission and Audio Processing Requirements for the BTSC System", OET BULLETIN, XX, XX, 1 February 1986 (1986-02-01), pages 1 - 17, XP002298198
• See references of WO 2004100604A1

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)
AU 2003224895 A1 20041126; CA 2525944 A1 20041118; CA 2525944 C 20120605; CN 1795697 A 20060628; EP 1618760 A1 20060125; EP 1618760 A4 20130320

DOCDB simple family (application)
AU 2003224895 A 20030409; CA 2525944 A 20030409; CN 03826605 A 20030409; EP 03721588 A 20030409