

Title (en)
NON-LINEAR FEEDBACK CONTROL LOOPS AS SPREAD SPECTRUM CLOCK GENERATOR

Title (de)
NICHTLINEARE REGELSCHLEIFEN ALS SPREIZSPEKTRUM-TAKTGENERATOR

Title (fr)
BOUCLES D'ASSERVISSEMENT NON LINEAIRES UTILISEES COMME GENERATEUR DE SIGNAL D'HORLOGE A ETALEMENT DU SPECTRE

Publication
EP 1958336 A2 20080820 (EN)

Application
EP 06846240 A 20061107

Priority

- US 2006060599 W 20061107
- US 73422205 P 20051107
- US 73759205 P 20051117
- US 74276405 P 20051206
- US 75604006 P 20060104
- US 75764506 P 20060110
- US 80590006 P 20060627
- US 80663906 P 20060706
- US 82333906 P 20060823
- US 82728806 P 20060928

Abstract (en)
[origin: WO2007056722A2] This patent disclosure presents circuits, systems and methods to spread a clock signal to produce a random spreading for the clock signal that offers the maximum possible power density reduction for the spurious radiations generated from the clock signal and its harmonics. These new inventions utilize a non-linear feedback control loop to assist in generation of the spread spectrum clock and result in electronic products that can pass the FCC requirements for spurious radiations generated by the clock signal and its harmonics without utilizing expensive shielding and other EMI suppression methods.

IPC 8 full level
H03L 7/06 (2006.01)

CPC (source: EP)
H04B 15/02 (2013.01); **H04B 2215/064** (2013.01); **H04B 2215/067** (2013.01)

Citation (search report)
See references of WO 2007056722A2

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

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007056722 A2 20070518; WO 2007056722 A3 20080731; EP 1958336 A2 20080820; JP 2009515488 A 20090409

DOCDB simple family (application)
US 2006060599 W 20061107; EP 06846240 A 20061107; JP 2008540320 A 20061107