

Title (en)

Method and apparatus for addition of signals existing as sampling values

Title (de)

Verfahren und Vorrichtung zur Addition von als Abtastwerte vorliegenden Signalen

Title (fr)

Procédé et dispositif pour addition des signaux existants comme valeurs d'échantillons

Publication

**EP 0876077 A3 20010207 (DE)**

Application

**EP 98440051 A 19980313**

Priority

DE 19716314 A 19970418

Abstract (en)

[origin: CA2230481A1] A method of forming an aggregation of  $N > 1$  band-limited time signals, each with a bandwidth of  $\sim B$ , which are present as analog and/or digital sampling values, with a respective sampling frequency of  $f_A > 2B$ , is characterized in that the sampling values of all  $N$  time signals are offset in time and superimposed on each other, and are jointly input to a low-pass filter (12) with a bandwidth of  $B' > B$ , and that a composite signal is tapped off from the output of the low-pass filter (12). This allows the aggregation to be performed in a considerably shorter calculation time, a number of slow and expensive aggregation elements can possibly be saved, and the damping of the signals during processing can be minimized, as well as the corresponding loss of information.

IPC 1-7

**H04Q 11/04**; **H03H 17/06**

IPC 8 full level

**G06J 1/00** (2006.01); **H03K 5/00** (2006.01); **H03K 5/13** (2006.01); **H04Q 11/04** (2006.01)

CPC (source: EP US)

**G06J 1/00** (2013.01 - EP US)

Citation (search report)

- [X] US 3614521 A 19711019 - BRUESCHKE ERICH E
- [DA] EP 0695066 A2 19960131 - ROHDE & SCHWARZ [DE]

Designated contracting state (EPC)

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DOCDB simple family (publication)

**DE 19716314 A1 19981022**; CA 2230481 A1 19981018; DE 59813972 D1 20070531; EP 0876077 A2 19981104; EP 0876077 A3 20010207; EP 0876077 B1 20070418; JP 4056126 B2 20080305; JP H1175273 A 19990316; US 6272181 B1 20010807

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**DE 19716314 A 19970418**; CA 2230481 A 19980401; DE 59813972 T 19980313; EP 98440051 A 19980313; JP 10826598 A 19980417; US 4854498 A 19980326