

Title (en)

SELF-CALIBRATING SELF-REGENERATIVE COMPARATOR CIRCUIT AND METHOD

Title (de)

SELBSTREGENERIERENDE KOMPARATORSCHALTUNG MIT SELBSTTÄTIGER EICHUNG UND VERFAHREN DAFÜR

Title (fr)

CIRCUIT COMPAREUR AUTO-REGENERATEUR A AUTO-CALIBRAGE ET PROCEDE DE COMPARAISON

Publication

EP 1155412 A1 20011121 (EN)

Application

EP 99908349 A 19990222

Priority

US 9903795 W 19990222

Abstract (en)

[origin: WO0051131A1] First and second currents can be compared and an output generated at first and second output nodes (3) and (4). First, the first and second output nodes (3) and (4) are calibrated such that the first output node (3) reaches a first real equilibrium voltage and the second output node (4) reaches a second real equilibrium voltage. The first real equilibrium voltage is not necessarily equal to the second real equilibrium voltage. At the active edge of a clock signal, the difference between the first and second currents can be amplified by causing the voltage at the first output node (3) to become lower than the voltage at the second output node (4) when the first current is greater than the second current. On the other hand, the voltage at the first output node (3) becomes higher than the voltage at the second output node (4) when the first current is less than the second current. With some modifications including at least one more switch, voltage comparisons can similarly be achieved.

IPC 1-7

G11C 7/06; **H03K 3/356**

IPC 8 full level

G11C 7/06 (2006.01); **H03K 3/356** (2006.01)

CPC (source: EP)

G11C 7/062 (2013.01); **H03K 3/356121** (2013.01)

Citation (search report)

See references of WO 0051131A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0051131 A1 20000831; AU 2780399 A 20000914; EP 1155412 A1 20011121; TW 425564 B 20010311

DOCDB simple family (application)

US 9903795 W 19990222; AU 2780399 A 19990222; EP 99908349 A 19990222; TW 88107178 A 19990504