

Title (en)
EXPLOITATION OF LOW DATA DENSITY OR NONZERO WEIGHTS IN A WEIGHTED SUM COMPUTER

Title (de)
BENUTZUNG VON GEWICHTEN NIEDRIGER DATENDICHTE ODER VON NULL VERSCHIEDENER DICHTEN IN EINEM RECHNER MIT GEWICHTETER SUMME

Title (fr)
MISE A PROFIT DE LA FAIBLE DENSITE DE DONNEES OU DE POIDS NON-NULS DANS UN CALCULATEUR DE SOMME PONDEREE

Publication
EP 4264497 A1 20231025 (FR)

Application
EP 21839468 A 20211215

Priority
• FR 2013363 A 20201216
• EP 2021085864 W 20211215

Abstract (en)
[origin: WO2022129156A1] Computing circuit for computing a weighted sum of a set of first data by way of at least one parsimony management circuit comprising a first buffer memory for storing all or some of the first data (MEM_A) delivered sequentially (SEQ1) and a second buffer memory for storing all or some of the second data (MEM_B) delivered sequentially (SEQ2). The parsimony management circuit (CGF) furthermore comprises a first processing circuit (CT_A) able: to analyse the first data in order to look for the first nonzero data (MNULL1- MNULL4) and define a first jump indicator (isl) indicating a jump between two successive nonzero data, and to command the transfer, to the distribution circuit (DIST), of a first datum (Xi) read from the first data buffer memory based on said first jump indicator. The parsimony management circuit (CGF) furthermore comprises a second processing circuit (CT_B) able to command the transfer, to the distribution circuit (DIST), of a second datum (Wi) read from the second data buffer memory based on said first jump indicator.

IPC 8 full level
G06N 3/04 (2023.01); **G06N 3/063** (2023.01); **G06N 3/08** (2023.01)

CPC (source: EP US)
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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KH MA MD TN

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