Title (en)

APPARATUS AND METHOD FOR DE-SERIALISATION OF DATA STREAM

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DESERIALISIERUNG EINES DATENSTROMS

Title (fr)

APPAREIL ET PROCÉDÉ POUR LA DÉSÉRIALISATION DE FLUX DE DONNÉES

Publication

EP 2067286 A2 20090610 (EN)

Application

EP 06794611 A 20060929

Priority

GB 2006003659 W 20060929

Abstract (en)

[origin: WO2008037944A2] An apparatus (100) for de-serialisation of a framed data stream, each frame being M-bits long and comprising a fixed frame alignment word, said apparatus comprising one first-order K:1 down-converter (102), K second-order L:1 down-converters (104-110), each connected to one of the outputs of the first-order down-converter and K slice aligners (112-118), each connected to outputs of the second-order down-converters (104-110). The apparatus further comprises a combiner (120) for combining all data streams from the slice aligners (112-118) into one data stream of width of K·L bits, wherein M is divisible by K·L and said first-order down converter (102) is adapted to form K different alignment slices from the frame alignment word by taking every Kth bit of said frame alignment word, wherein each of the slice aligners searches for one of the K alignment slices in the received data stream and generates a marker indicating a bit sequence in the data stream that matches the sought alignment slice. The combiner (120) assembles the contiguous K·L bit wide data stream if within two adjacent clock cycles all K slice aligners generate said markers for K different alignment slices.

IPC 8 full level

H04J 3/06 (2006.01)

CPC (source: EP)

H04J 3/047 (2013.01); H04J 3/0608 (2013.01); H04J 3/1611 (2013.01)

Citation (search report)

See references of WO 2008037944A2

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 2008037944 A2 20080403; **WO 2008037944 A3 20081023**; EP 2067286 A2 20090610

DOCDB simple family (application)

GB 2006003659 W 20060929; EP 06794611 A 20060929