

Title (en)
ACS UNIT FOR A VITERBI DECODER

Title (de)
ACS-EINHEIT FÜR EINEN VITERBI-DECODIERER

Title (fr)
UNITE ACS (ADDITION-COMPARAISON-SELECTION) POUR DECODEUR DE VITERBI

Publication
EP 1203474 A2 20020508 (DE)

Application
EP 00958204 A 20000802

Priority
• DE 0002569 W 20000802
• DE 19937506 A 19990809

Abstract (en)
[origin: WO0111842A2] The invention relates to an ACS unit for a Viterbi decoder. In order to determine the path metrics of two states of a time step in a trellis diagram, the inventive unit compares the difference (GAMMA) between the path metrics of the two states (19, 20) of a previous time step of the trellis diagram, which are linked to said states by means of branches in the form of a butterfly structure, with the differences (LAMBDA) of the corresponding branch metrics. The structure of the ACS unit is simplified by evaluating the signs (sg(GAMMA), sg(LAMBDA)) of both differences.

IPC 1-7
H04L 25/00

IPC 8 full level
H03M 13/41 (2006.01)

CPC (source: EP KR US)
H03M 13/41 (2013.01 - KR); **H03M 13/4107** (2013.01 - EP US); **H03M 13/6502** (2013.01 - EP US)

Citation (search report)
See references of WO 0111842A2

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 0111842 A2 20010215; **WO 0111842 A3 20010816**; CN 1190902 C 20050223; CN 1369140 A 20020911; DE 19937506 A1 20010419; EP 1203474 A2 20020508; JP 2003506969 A 20030218; JP 3607894 B2 20050105; KR 20020027535 A 20020413; US 6813744 B1 20041102

DOCDB simple family (application)
DE 0002569 W 20000802; CN 00811539 A 20000802; DE 19937506 A 19990809; EP 00958204 A 20000802; JP 2001515596 A 20000802; KR 20027001760 A 20020208; US 4850802 A 20020716