

Title (en)  
ERROR CORRECTABLE DATA TRANSMISSION METHOD AND DEVICE BASED ON SEMI-CYCLIC CODES

Title (de)  
ÜBERTRAGUNGSVERFAHREN UND -VORRICHTUNG FÜR FEHLERKORRIGIERBARE DATEN UNTER ANWENDUNG HALBZYKLISCHER CODES

Title (fr)  
PROCEDE ET DISPOSITIF DE TRANSMISSION DE DONNEES A CORRECTION D'ERREURS FONDE SUR DES CODES SEMI-CYCLIQUES

Publication  
**EP 0698269 A1 19960228 (EN)**

Application  
**EP 95907126 A 19950214**

Priority

- EP 95907126 A 19950214
- EP 94200336 A 19940216
- EP 94200452 A 19940223
- EP 94200703 A 19940321
- EP 94201824 A 19940624
- EP 94203394 A 19941122
- IB 9500100 W 19950214

Abstract (en)  
[origin: WO9523384A2] A digital signal is transmitted as a plurality of (s) sequences of information symbols of uniform bit length. Each sequence occurs in a respective input channel, check words being included in the transmission through encoding. A first block of symbols, one from each input channel, is applied in a first arrangement state to a first error correcting encoder to generate a series of (p) first check symbols. Next, each symbol in the first block and each of the (p) first check symbols is delayed by a respective different delay so as to obtain a second block of symbols in a second arranging state for supply to a second error-correcting encoder. This generates a series of (q) second check symbols for transmission. First and second check symbols are generated to satisfy a respective parity check matrix with (s+p+q) columns and (p) and (q) rows respectively, of semi-cyclic codes. The delay puts adjacent symbols of the first arranging state into adjacent instances of the second arranging state and the (q) second check symbols are retro-coupled into the first encoder in accordance with the first arranging state.

IPC 1-7  
**G11B 20/00**

IPC 8 full level  
**H04L 1/00** (2006.01); **G09C 1/00** (2006.01); **G11B 20/00** (2006.01); **G11B 20/18** (2006.01); **H03M 13/00** (2006.01); **H03M 13/27** (2006.01); **H03M 13/29** (2006.01); **H04L 9/00** (2006.01)

CPC (source: EP KR)  
**G06K 19/06** (2013.01 - KR); **G11B 20/1833** (2013.01 - EP); **G11B 20/1866** (2013.01 - EP); **H03M 13/1515** (2013.01 - EP); **H03M 13/27** (2013.01 - EP); **H03M 13/29** (2013.01 - EP); **H03M 13/2903** (2013.01 - EP); **H03M 13/2921** (2013.01 - EP); **H03M 13/293** (2013.01 - EP); **H04L 1/0041** (2013.01 - EP); **H04L 1/0045** (2013.01 - EP); **H04L 1/0057** (2013.01 - EP); **H04L 1/0065** (2013.01 - EP); **H04L 1/007** (2013.01 - EP); **H04L 1/0071** (2013.01 - EP); **G11B 2020/1836** (2013.01 - EP)

Citation (search report)  
See references of WO 9523384A2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 9523384 A2 19950831**; **WO 9523384 A3 19951019**; AU 1544895 A 19950911; CN 1126005 A 19960703; EP 0698269 A1 19960228; JP H08509351 A 19961001; KR 960702131 A 19960328; TW 257907 B 19950921

DOCDB simple family (application)  
**IB 9500100 W 19950214**; AU 1544895 A 19950214; CN 95190236 A 19950214; EP 95907126 A 19950214; JP 52223295 A 19950214; KR 19950704557 A 19951016; TW 84102104 A 19950306