

Title (en)  
SYNCHRO-FRAME METHOD BASED ON THE DISCRETE LOGARITHM

Title (de)  
AUF DISKRETEM LOGARITHMUS BASIERENDES SYNCHRO-FRAME-VERFAHREN

Title (fr)  
PROCEDE DE SYNCHRO-TRAME A BASE DE LOGARITHME DISCRET

Publication  
**EP 2220799 A2 20100825 (FR)**

Application  
**EP 08856271 A 20081203**

Priority  
• EP 2008066722 W 20081203  
• FR 0708460 A 20071204

Abstract (en)  
[origin: WO2009071589A2] Method for transmitting data having a first format or format 1 in a datastream complying with a second format, the second format or format 2 consisting of a stream of data symbols incorporating in a regular manner a symbol dedicated to synchronization and placed every  $r$  data symbols, the symbol dedicated to synchronization being the current term of a series  $S(t)$  satisfying a linear recurrence, the data being split in format 1 into data blocks of fixed size including  $kr$  symbols, the data symbols being considered to be elements of a finite field  $GF(q)$  where  $q$  is the number of elements of the field, the series  $S(t)$  satisfies a linear recurrence over  $GF(q)$  and admits as characteristic polynomial a primitive polynomial  $P$  of degree  $n$  over  $GF(q)$ , and is periodic with a period  $T=q^n-1$ ,  $a$  being a root of  $P$  in the field  $GF(q^n)$ .

IPC 8 full level  
**H04L 1/00** (2006.01)

CPC (source: EP)  
**H03M 7/02** (2013.01)

Citation (search report)  
See references of WO 2009071589A2

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