

Title (en)  
CLOCK SYNCHRONIZATION IN TELECOMMUNICATIONS NETWORK USING SYSTEM FRAME NUMBER

Title (de)  
TAKTSYNCHRONISIERUNG IM NACHRICHTENÜBERTRAGUNGSNETZWERK MITTELS SYSTEMRAHMENNUMMER

Title (fr)  
SYNCHRONISATION DE SIGNAUX D'HORLOGE DANS UN RESEAU DE TELECOMMUNICATIONS A L'AIDE DE NUMEROS DE TRAMES SYSTEME

Publication  
**EP 1142176 A2 20011010 (EN)**

Application  
**EP 99964908 A 19991217**

Priority

- IB 9802073 W 19981218
- SE 9902416 W 19991217
- US 44320899 A 19991118

Abstract (en)  
[origin: WO0038361A2] A telecommunications system (18) capitalizes employment of a system frame number (SFN) for synchronizing plural real time clocks (206) provided at one or more nodes of the network. System frame signals (e.g., pulses) are distributed from a source (210, 310) to processors (202) having slave clocks (206S) that need to be synchronized with a master clock. A master processor (202M, 302T) sends a clock set message (500) to the processors, the clock set message including a reference master clock time (506) and a reference system frame number (504). The recipient processors which receive the clock set message resynchronize their respective slave clocks using the reference master clock time and the reference system frame number. In one mode, the clock set message directs the recipient processors to set their respective slave clocks to the reference master clock time upon the recipient processors obtaining the reference system frame number. In another mode, the clock set message advises the recipient processors of an actual master clock time at the reference system frame number, thereby enabling the recipient processor to calculate an adjusted slave clock time.

IPC 1-7  
**H04J 3/06**; **H04Q 9/00**

IPC 8 full level  
**H04B 7/26** (2006.01); **H04J 3/06** (2006.01); **H04L 7/00** (2006.01); **H04Q 7/36** (2006.01); **H04W 56/00** (2009.01); **H04W 92/00** (2009.01)

CPC (source: EP)  
**H04J 3/0664** (2013.01); **H04B 7/269** (2013.01)

Citation (search report)  
See references of WO 0038361A2

Cited by  
US10979279B2

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 0038361 A2 20000629**; **WO 0038361 A3 20001102**; AR 021937 A1 20020904; AU 3093700 A 20000712; CA 2353598 A1 20000629; CN 1335000 A 20020206; EP 1142176 A2 20011010; JP 2002533990 A 20021008

DOCDB simple family (application)  
**SE 9902416 W 19991217**; AR P990106592 A 19991220; AU 3093700 A 19991217; CA 2353598 A 19991217; CN 99816161 A 19991217; EP 99964908 A 19991217; JP 2000590333 A 19991217