

Title (en)  
PROCESSOR, METHOD AND TERMINAL FOR USE IN COMMUNICATIONS

Title (de)  
PROZESSOR, VERFAHREN UND ENDGERÄT ZUR VERWENDUNG IN KOMMUNIKATIONEN

Title (fr)  
PROCESSEUR, PROCÉDÉ ET TERMINAL POUR COMMUNICATIONS

Publication  
**EP 2044782 A4 20100414 (EN)**

Application  
**EP 07840162 A 20070502**

Priority  
• US 2007068008 W 20070502  
• GB 0612967 A 20060630

Abstract (en)  
[origin: GB2439613A] A processor (301) for encrypting a signal to be communicated from a first location to a second location or for decrypting a signal which has been communicated from a first location to a second location, is operable to send or receive a signal which comprises a sequence (400) of frames including an initial full synchronisation frame (401) followed by consecutive mixed frames (402) each of which includes a partial frame portion (PT) of encrypted traffic information together with a partial frame portion (PS) of synchronising information. The synchronising information relates to the state of the encryption algorithm used at the transmitter, so that the algorithm at the receiver can start from the same state. The partial frame portions each contain a different part of the full synchronising information contained in the initial frame, so that the synchronising information can still be obtained at the receiver if the initial frame is missed or lost. Applications include TETRA systems.

IPC 8 full level  
**H04L 9/12** (2006.01); **H04W 56/00** (2009.01)

CPC (source: EP GB)  
**H04L 9/00** (2013.01 - EP); **H04L 9/12** (2013.01 - EP GB); **H04B 7/2656** (2013.01 - GB); **H04L 2209/80** (2013.01 - EP); **H04W 56/00** (2013.01 - EP)

Citation (search report)  
• [XY] US 4757536 A 19880712 - SZCZUTKOWSKI CRAIG F [US], et al  
• [Y] EP 1583380 A2 20051005 - MOTOROLA INC [US]  
• [A] "Terrestrial Trunked Radio (TETRA); Security; Synchronization mechanism for end-to-end encryption; ETSI EN 302 109", ETSI STANDARDS, LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE, vol. TETRA-6, no. V1.1.1, 1 October 2003 (2003-10-01), XP014015351, ISSN: 0000-0001  
• See also references of WO 2008019178A2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**GB 0612967 D0 20060809**; **GB 2439613 A 20080102**; **GB 2439613 B 20080827**; EP 2044782 A2 20090408; EP 2044782 A4 20100414; WO 2008019178 A2 20080214; WO 2008019178 A3 20080619

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