

Title (en)  
ELEMENTARY STREAM PARTIAL ENCRYPTION

Title (de)  
ELEMENTARSTROM-PARTIALVERSCHLÜSSELUNG

Title (fr)  
CRYPTAGE PARTIEL DE TRAINS DE DONNEES ELEMENTAIRES

Publication  
**EP 1486071 A4 20090930 (EN)**

Application  
**EP 02792388 A 20021213**

Priority  
• CA 2405865 A 20021001  
• US 0240051 W 20021213  
• US 3791402 A 20020102

Abstract (en)  
[origin: WO03061173A2] An encryption arrangement for multiple encryption of television programs. A system according to embodiments of the present invention multiple encrypts only a portion of the data required for full presentation of a television program to permit coexistence of multiple conditional access encryption systems associated with multiple manufacturer's set-top boxes within a single system. In one embodiment, only audio data are encrypted leaving video in the clear. By only encrypting a portion of the program, dramatically less bandwidth is consumed than the alternative of multiple encryption of all program data, thus permitting a larger number of programs to be carried over the same bandwidth while permitting coexistence of multiple conditional access systems in a single cable television system.

IPC 1-7  
**H04N 7/167**

IPC 8 full level  
**H04L 9/18** (2006.01); **H04N 7/167** (2011.01); **H04N 21/2347** (2011.01); **H04N 21/2362** (2011.01); **H04N 21/266** (2011.01); **H04N 21/434** (2011.01); **H04N 21/4405** (2011.01); **H04N 21/4623** (2011.01); **H04N 21/835** (2011.01)

CPC (source: EP KR)  
**H04N 7/10** (2013.01 - KR); **H04N 7/1675** (2013.01 - EP); **H04N 21/2347** (2013.01 - KR); **H04N 21/23476** (2013.01 - EP); **H04N 21/2362** (2013.01 - EP); **H04N 21/26606** (2013.01 - EP); **H04N 21/4345** (2013.01 - EP); **H04N 21/44055** (2013.01 - EP); **H04N 21/4623** (2013.01 - EP); **H04N 21/835** (2013.01 - EP)

Citation (search report)  
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**WO 03061173 A2 20030724; WO 03061173 A3 20040923**; AU 2002357846 A1 20030730; AU 2002357846 A8 20030730; CN 1633809 A 20050629; CN 1633809 B 20100421; EP 1486071 A2 20041215; EP 1486071 A4 20090930; JP 2005515694 A 20050526; JP 4446743 B2 20100407; KR 101004196 B1 20101224; KR 20040068994 A 20040802; MX PA04006400 A 20041004

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