

Title (en)  
VIDEO ON DEMAND SERVER SYSTEM AND METHOD

Title (de)  
BESTELLVIDEO-SERVERSYSTEM UND VERFAHREN

Title (fr)  
SYSTEME ET PROCEDE DE SERVEUR DE PROGRAMMES VIDEO A LA CARTE

Publication  
**EP 1550309 A4 20170201 (EN)**

Application  
**EP 03749551 A 20030910**

Priority  
• US 0328275 W 20030910  
• US 40964502 P 20020910

Abstract (en)  
[origin: WO2004025405A2] A Video-on-Demand Server architecture (100, 200, 300) transmits a plurality of pre-coded programs having different bit rates across a fixed bandwidth channel (11). For each program, a generator (120-12P-1, 110, 210) generates a plurality of different bit rate representations for each program. Each generator also provides control information at each of a plurality of successive time windows T for each bit rate representation. The control information provides a bit rate and a quality measure during each time window T. The control information enables a statistical multiplexer (16, 160, 260) to select a bit rate representation for each program during each time window T to maximize the quality of the selected representations while not exceeding the total available channel capacity.

IPC 8 full level  
**H04N 7/173** (2011.01); **H04L 12/56** (2006.01); **H04N 5/00** (2011.01); **H04N 7/24** (2011.01); **H04N 21/2343** (2011.01); **H04N 21/2365** (2011.01); **H04N 21/2662** (2011.01); **H04N 21/472** (2011.01)

CPC (source: BR EP KR)  
**H04N 7/17318** (2013.01 - BR EP); **H04N 21/23439** (2013.01 - BR EP); **H04N 21/23655** (2013.01 - BR EP); **H04N 21/238** (2013.01 - KR); **H04N 21/2662** (2013.01 - BR EP); **H04N 21/47202** (2013.01 - BR EP)

Citation (search report)  
• [IA] WO 0072601 A2 20001130 - BIGBAND NETWORKS INC [US]  
• [XAI] ZHANG X ET AL: "Constant-quality constrained-rate allocation for FGS video coded bitstreams", VISUAL COMMUNICATIONS AND IMAGE PROCESSING; 21-1-2002 - 23-1-2002; SAN JOSE., 21 January 2002 (2002-01-21), XP030080576  
• [IA] NOMURA M ET AL: "Layered coding for ATM based video distribution systems", SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 3, no. 4, 1 September 1991 (1991-09-01), pages 301 - 311, XP024241793, ISSN: 0923-5965, [retrieved on 19910901], DOI: 10.1016/0923-5965(91)90036-2  
• See references of WO 2004025405A2

Designated contracting state (EPC)  
DE FR GB IT

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**WO 2004025405 A2 20040325; WO 2004025405 A3 20040708**; AU 2003267076 A1 20040430; AU 2003267076 A8 20040430; BR 0306317 A 20070508; BR PI0306317 B1 20181121; CN 100344162 C 20071017; CN 1679336 A 20051005; EP 1550309 A2 20050706; EP 1550309 A4 20170201; JP 2005538651 A 20051215; JP 4643988 B2 20110302; KR 101014451 B1 20110214; KR 20050036998 A 20050420

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