

Title (en)

REAL TIME VIDEO GAME USES EMULATION OF STREAMING OVER THE INTERNET IN A BROADCAST EVENT

Title (de)

ECHTZEIT-VIDEOSPIEL EINE EMULATION VON STRÖMUNG ÜBER INTERNET IN EINER RUNDFUNKANWENDUNG BENUTZEND

Title (fr)

DES JEUX VIDEOS EN TEMPS REELS UTILISENT L'EMULATION DU MODE CONTINU SUR INTERNET DANS UN EVENEMENT DE DIFFUSION

Publication

**EP 1047481 A1 20001102 (EN)**

Application

**EP 99944472 A 19990823**

Priority

- EP 9906160 W 19990823
- US 13878298 A 19980824
- US 14995098 A 19980909

Abstract (en)

[origin: WO0010663A1] In a broadcast application on a client-server network the streaming is emulated of animation data over the Internet to a large number of clients. The animation is considered a sequence of states. State information is sent to the clients instead of the graphics data itself. The clients generate the animation data itself under control of the state information. The server and clients communicate using a shared object protocol. Thus, streaming is accomplished as well as a broadcast without running into severe network bandwidth problems. This approach is used to map a real life event, e.g., a motor race, onto a virtual environment in order to let the user participate in a virtual race against the real life professionals, the dynamics of the virtual environment being determined by the state changes sent to the user.

IPC 1-7

**A63F 13/12**; **H04N 7/24**

IPC 8 full level

**A63F 13/00** (2006.01); **A63F 13/12** (2006.01); **G06F 19/00** (2006.01); **G06T 17/40** (2006.01); **G06T 19/00** (2011.01); **H04N 7/15** (2006.01); **H04N 7/24** (2006.01); **H04N 7/26** (2006.01); **H04N 21/2343** (2011.01); **H04N 21/43** (2011.01)

CPC (source: EP US)

**A63F 13/31** (2014.09 - US); **A63F 13/335** (2014.09 - EP); **A63F 13/35** (2014.09 - US); **A63F 13/358** (2014.09 - EP); **A63F 13/65** (2014.09 - EP US); **A63F 13/803** (2014.09 - EP); **H04N 7/15** (2013.01 - EP); **H04N 7/24** (2013.01 - EP); **H04N 19/27** (2014.11 - EP); **H04N 21/234318** (2013.01 - EP); **H04N 21/43072** (2020.08 - EP US); **A63F 2300/402** (2013.01 - EP); **A63F 2300/407** (2013.01 - EP); **A63F 2300/534** (2013.01 - EP); **A63F 2300/69** (2013.01 - EP); **A63F 2300/8017** (2013.01 - EP); **A63F 2300/8082** (2013.01 - EP)

Citation (search report)

See references of WO 0010663A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 0010663 A1 20000302**; CN 1275091 A 20001129; EP 1047481 A1 20001102; JP 2002523156 A 20020730; JP 5160704 B2 20130313

DOCDB simple family (application)

**EP 9906160 W 19990823**; CN 99801337 A 19990823; EP 99944472 A 19990823; JP 2000565981 A 19990823