

Title (en)

METHOD FOR SYNCHRONOUS REPRESENTATION OF A VIRTUAL REALITY IN A DISTRIBUTED SIMULATION DEVICE

Title (de)

VERFAHREN ZUR SYNCHRONEN WIEDERGABE EINER VIRTUELLEN REALITÄT IN EINER VERTEILTEN SIMULATIONSVORRICHTUNG

Title (fr)

PROCÉDÉ DE REPRODUCTION SYNCHRONE D'UNE RÉALITÉ VIRTUELLE DANS UN SYSTÈME DE SIMULATION DISTRIBUÉ

Publication

EP 2836992 A1 20150218 (DE)

Application

EP 13726669 A 20130403

Priority

- DE 102012103011 A 20120405
- DE 2013100119 W 20130403

Abstract (en)

[origin: CA2868370A1] A method for synchronous representation of terrain formed from polygons of a virtual reality on a plurality of display devices of a simulation device, which has a plurality of simulation computers (SR1, SR2) connected to one another via a network which computers store spatial coordinates of the polygons for the terrain, and SR1 generating a change of the terrain. The method has the following method steps: - SR1 generates position data (L) that specifies which region of the terrain was changed; - generates elevation data (H) of the changed region of the terrain; - and transfers the position data (L) and the elevation data (H) via the network to SR2; - a control unit of SR2 selects, on the basis of the position data (L), any polygons of the terrain which are in the changed region; - a tessellator unit divides each of the selected polygons into a plurality of sub-polygons; - a calculating unit calculates the spatial coordinates of the sub-polygons according to the elevation data (H); and - the sub-polygons are displayed on SR2.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2013149616A1

Citation (examination)

- US 2005264566 A1 20051201 - SOMMERS ANTHONY L [US]
- DOMINIK BREUER: "Architektur-Recovery zur Erweiterung des Simulators Sagittarius Interoperabilität von Simulatoren nach DIS-und HLA-Standard", 5 August 2005 (2005-08-05), pages 1 - 135, XP055300991, Retrieved from the Internet <URL:https://www.uni-koblenz.de/~ist/documents/breuer2005da.pdf> [retrieved on 20160908]

Designated contracting state (EPC)

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