Title (en)

GEOMETRIC DESIGN AND MODELING SYSTEM USING CONTROL GEOMETRY

Title (de)

SYSTEM ZUM GEOMETRISCHEN ENTWURF UND ZUR GEOMETRISCHEN MODELLIERUNG MITTELS STEUERUNGSGEOMETRIE

Title (fr)

SYSTEME DE CONCEPTION ET DE MODELISATION GEOMETRIQUES UTILISANT UNE GEOMETRIE DE CONTROLE

Publication

EP 1210692 A4 20060208 (EN)

Application

EP 99939655 A 19990723

Priority

US 9916844 W 19990723

Abstract (en)

[origin: WO0108102A1] A method and system for computer aided design (CAD) for designing geometric objects (30, 34). The present invention interpolates and/or blends (B1(u, v), B2(u, v)) between geometric objects (62) sufficiently fast so that real-time deformation of such objects occurs while deformation data is being input. Thus, a user designing obtains immediate feedback to input modifications without separately entering a command for performing deformation. The present invention utilizes novel computational techniques for blending between geometric objects, wherein weighted sums of points on the geometric objects are used in deriving a new blended geometric object. The present invention is particularly useful for designing the shape of surfaces (S1, S2) and various design domains; additionally, providing efficient animation via repeatly modifying surfaces of an animated object.

IPC 1-7

G06T 15/00; G06T 15/10

IPC 8 full level

G06T 15/00 (2006.01); **G06T 15/70** (2006.01); **G06F 17/50** (2006.01); **G06T 17/30** (2006.01); **G06T 17/40** (2006.01)

CPC (source: EP KR)

G06T 13/20 (2013.01 - KR); **G06T 17/30** (2013.01 - EP); **G06T 19/20** (2013.01 - KR)

Citation (search report)

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- See also references of WO 0108102A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0108102 A1 20010201; AU 5390799 A 20010213; CA 2379459 A1 20010201; CN 1391683 A 20030115; EP 1210692 A1 20020605; EP 1210692 A4 20060208; HU P0700118 A2 20070529; JP 2003505800 A 20030212; KR 20020021800 A 20020322; MX PA02000845 A 20031015

DOCDB simple family (application)

US 9916844 W 19990723; AU 5390799 A 19990723; CA 2379459 A 19990723; CN 99816901 A 19990723; EP 99939655 A 19990723; HU P0700118 A 19990723; JP 2001513115 A 19990723; KR 20020004000 A 20020123; MX PA02000845 A 19990723