

Title (en)

STATISTICAL DYNAMIC COLLISIONS METHOD AND APPARATUS

Title (de)

VERFAHREN UND VORRICHTUNG FÜR STATISTISCHE DYNAMISCHE KOLLISIONEN

Title (fr)

PROCEDE ET APPAREIL DE COLLISIONS DYNAMIQUES STATISTIQUES

Publication

**EP 1636759 A1 20060322 (EN)**

Application

**EP 03751882 A 20030822**

Priority

- US 0326371 W 20030822
- US 43873203 A 20030514
- US 43874803 A 20030514

Abstract (en)

[origin: WO2004104934A1] A method for animating soft body characters (Fig. 15) has a preparation phase (305) followed by an animation phase (310). The preparation phase determines the skin deformation of a character model at skin contact points in response to impulse collisions. The skin deformation from impulse collisions are compactly represented in terms of the set of basis poses. In the animation phase, the skin impulse responses are used to create a final posed character. Regardless of the type of collision or the shape of the colliding object, the collision animation phase uses the same set of skin impulse responses. A subset of a set of skin points is selected as a set of skin collision points. A final collision response is determined from the skin collision points. The final collision response to the complete set of skin points.

IPC 1-7

**G06T 13/00**; **G06T 15/70**

IPC 8 full level

**G06T 13/00** (2006.01); **G06T 13/40** (2011.01); **G06T 15/70** (2006.01); **G06T 17/00** (2006.01)

CPC (source: EP)

**G06T 13/40** (2013.01); **G06T 17/00** (2013.01); **G06T 2210/21** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004104934 A1 20041202**; AU 2003260051 A1 20041213; AU 2003269986 A1 20041213; EP 1636759 A1 20060322; EP 1636759 A4 20101110; EP 1639552 A1 20060329; EP 1639552 A4 20100825; JP 2006514379 A 20060427; JP 2006514380 A 20060427; JP 4358752 B2 20091104; JP 4361878 B2 20091111; WO 2004104935 A1 20041202

DOCDB simple family (application)

**US 0326371 W 20030822**; AU 2003260051 A 20030822; AU 2003269986 A 20030822; EP 03751882 A 20030822; EP 03817037 A 20030822; JP 2004572200 A 20030822; JP 2004572201 A 20030822; US 0326546 W 20030822