Title (en)
METHOD FOR GENERATING A THREE-DIMENSIONAL FACIAL MODEL

Title (de)
VERFAHREN ZUR ERZEUGUNG EINES DREIDIMENSIONALEN GESICHTSMODELLS

Title (fr)
PROCEDE DE GENERATION D'UN MODELE DE VISAGE EN TROIS DIMENSIONS

Publication
EP 2923302 A1 20150930 (FR)

Application
EP 13792400 A 20131120

Priority
• FR 1261025 A 20121120
• EP 2013074310 W 20131120

Abstract (en)
[origin: WO2014079897A1] The invention relates to a method for generating a three-dimensional facial model the shape of which can changed on the basis of a plurality of images of faces of persons, including the steps that involve: generating a facial template; acquiring shapes from examples of faces of persons; repeatedly changing the shape of the template for each example of a face of a person, so that the shape of the changed template corresponds to the shape of the face example, and determining the change in shape between the initial template and the changed template; and generating the facial model as a linear combination of the shape of the template and the changes in shape between the initial template and the changed template, for each example of a face of a person. The invention also relates to a method for processing an image of a face of a person such as to generate a three-dimensional image of the face of the person from of said deformable model.

IPC 8 full level
G06K 9/00 (2006.01); **G06T 17/00** (2006.01)

CPC (source: EP US)
G06T 3/073 (2024.01 - US); **G06T 7/337** (2016.12 - EP US); **G06T 15/04** (2013.01 - US); **G06T 17/10** (2013.01 - US); **G06T 19/20** (2013.01 - US); **G06V 40/169** (2022.01 - EP US); G06T 2207/30201 (2013.01 - US); G06T 2219/2021 (2013.01 - US)

Citation (search report)
See references of WO 2014079897A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 2998402 A1 20140523; **FR 2998402 B1 20141114**; EP 2923302 A1 20150930; JP 2016501396 A 20160118; JP 6318162 B2 20180425; US 10235814 B2 20190319; US 2015310673 A1 20151029; WO 2014079897 A1 20140530

DOCDB simple family (application)
FR 1261025 A 20121120; EP 13792400 A 20131120; EP 2013074310 W 20131120; JP 2015542315 A 20131120; US 201314646009 A 20131120