

Title (en)

GESTURE BASED CONTROL USING THREE-DIMENSIONAL INFORMATION EXTRACTED OVER AN EXTENDED DEPTH OF FIELD

Title (de)

AUF GESTIK BASIERENDE STEUERUNG UNTER VERWENDUNG VON ÜBER EINE ERWEITERTE SCHÄRFENTIEFE EXTRAHIERTEN DREIDIMENSIONALEN INFORMATIONEN

Title (fr)

COMMANDE REPOSANT SUR LES GESTES ET UTILISANT DES INFORMATIONS TRIDIMENSIONNELLES EXTRAITES SUR UNE PROFONDEUR DE CHAMP ÉTENDUE

Publication

EP 2266016 A2 20101229 (EN)

Application

EP 09728557 A 20090402

Priority

- US 2009039285 W 20090402
- US 10524308 P 20081014
- US 10525308 P 20081014
- US 4189208 P 20080402
- US 10926308 A 20080424

Abstract (en)

[origin: WO2009124181A2] Systems and methods are described for gesture-based control using three-dimensional information extracted over an extended depth of field. The system comprises a plurality of optical detectors coupled to at least one processor. The optical detectors image a body. At least two optical detectors of the plurality of optical detectors comprise wavefront coding cameras. The processor automatically detects a gesture of the body, wherein the gesture comprises an instantaneous state of the body. The detecting comprises aggregating gesture data of the gesture at an instant in time. The gesture data includes focus-resolved data of the body within a depth of field of the imaging system. The processor translates the gesture to a gesture signal, and uses the gesture signal to control a component coupled to the processor.

IPC 8 full level

G06F 3/01 (2006.01); **G02B 27/00** (2006.01); **G02B 27/52** (2006.01); **G06F 3/03** (2006.01); **G06K 9/00** (2006.01)

CPC (source: EP KR)

G02B 27/0075 (2013.01 - EP); **G02B 27/52** (2013.01 - EP); **G06F 3/017** (2013.01 - EP KR); **G06F 3/0325** (2013.01 - EP KR); **G06F 3/0346** (2013.01 - KR); **G06F 9/44** (2013.01 - KR); **G06T 1/00** (2013.01 - KR); **G06V 40/28** (2022.01 - EP KR)

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009124181 A2 20091008; **WO 2009124181 A3 20091230**; CN 102047203 A 20110504; CN 102047203 B 20160817; EP 2266016 A2 20101229; EP 2266016 A4 20141029; JP 2011523112 A 20110804; JP 5697590 B2 20150408; KR 101550478 B1 20150904; KR 20100136993 A 20101229

DOCDB simple family (application)

US 2009039285 W 20090402; CN 200980120542 A 20090402; EP 09728557 A 20090402; JP 2011503166 A 20090402; KR 20107024659 A 20090402