

Title (en)

METHODS AND APPARATUS FOR SIMULTANEOUS DETECTION OF DISCRETE AND CONTINUOUS GESTURES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR GLEICHZEITIGEN DETEKTION VON DISKRETEN UND KONTINUIERLICHEN GESTEN

Title (fr)

PROCÉDÉS ET APPAREIL DE DÉTECTION SIMULTANÉE DE GESTES INDIVIDUELS ET CONTINUS

Publication

EP 3717991 A4 20210428 (EN)

Application

EP 18883547 A 20181130

Priority

- US 201762592656 P 20171130
- US 201862621728 P 20180125
- US 2018063215 W 20181130

Abstract (en)

[origin: WO2019108880A1] According to at least one aspect, a computerized system is provided. The computerized system comprises a plurality of neuromuscular sensors configured to record a plurality of neuromuscular signals from a user, wherein the plurality of neuromuscular sensors are arranged on one or more wearable devices and at least one computer processor or computing device. The at least one computer processor may be programmed to determine, using one or more trained statistical models and the plurality of neuromuscular signals, position information and force information representing at least one movement performed by the user; and identify gestures performed by the user based, at least in part, on the position information and/or the force information.

IPC 8 full level

G06F 3/01 (2006.01); **G06F 1/16** (2006.01); **G06F 3/0346** (2013.01); **G06F 3/0484** (2013.01); **G06K 9/00** (2006.01); **G06N 3/04** (2006.01); **G06N 3/08** (2006.01); **G06N 7/00** (2006.01); **G06N 99/00** (2019.01)

CPC (source: EP)

G06F 3/015 (2013.01); **G06F 3/017** (2013.01); **G06N 3/044** (2023.01); **G06N 3/084** (2013.01); **G06N 7/01** (2023.01); **G06V 40/28** (2022.01); **G06N 3/045** (2023.01)

Citation (search report)

- [X1] US 2016162022 A1 20160609 - SETH ROHIT [CA]
- [I] US 2013317648 A1 20131128 - ASSAD CHRISTOPHER [US]
- [I] CN 104134060 A 20141105 - SHANGHAI WEIPU ELECTRONIC TECHNOLOGY CO LTD
- [I] US 2016091980 A1 20160331 - BARANSKI ANDRZEJ [US], et al
- [I] WANG WENHUI ET AL: "Dynamic gesture recognition based on multiple sensors fusion technology", PROCEEDINGS OF THE 31ST ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY: ENGINEERING THE FUTURE OF BIOMEDICINE, EMBC 2009, IEEE, 3 September 2009 (2009-09-03), pages 7014 - 7017, XP031881574, ISBN: 978-1-4244-3296-7, DOI: 10.1109/IEMBS.2009.5333326
- See references of WO 2019108880A1

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

DOCDB simple family (publication)

WO 2019108880 A1 20190606; CN 112041784 A 20201204; EP 3717991 A1 20201007; EP 3717991 A4 20210428; EP 3951564 A1 20220209

DOCDB simple family (application)

US 2018063215 W 20181130; CN 201880088193 A 20181130; EP 18883547 A 20181130; EP 21198618 A 20181130