

Title (en)

DISPLAY APPARATUS AND METHOD INCORPORATING ADAPTIVE POSE LOCKING

Title (de)

ANZEIGEVORRICHTUNG UND VERFAHREN MIT ADAPTIVER POSENVERRIEGELUNG

Title (fr)

APPAREIL D'AFFICHAGE ET PROCÉDÉ INCORPORANT UN VERROUILLAGE DE POSE ADAPTATIF

Publication

**EP 4052245 A1 20220907 (EN)**

Application

**EP 21705231 A 20210205**

Priority

- US 202016783557 A 20200206
- US 202117155621 A 20210122
- FI 2021050073 W 20210203
- FI 2021050085 W 20210205

Abstract (en)

[origin: WO2021156548A1] Disclosed is display apparatus (100, 200) comprising pose-tracking means (102, 202); image renderer (104, 106, 204, 206) per eye; liquid-crystal device (108, 110, 208, 210) comprising liquid-crystal structure (114, 116, 214, 216) and control circuit (118, 120, 218, 220); and processor (112, 212). Processor is configured to: process pose-tracking data to determine user's head pose; detect if rate at which head pose is changing is below predefined threshold rate; if yes, switch on lock mode, select head pose for session of lock mode, and generate output image frames according to head pose during session; if no, generate output image frames according to corresponding head poses of user using pose-tracking data; and display output image frames, whilst shifting light emanating from pixels of image renderer to multiple positions (P1-P9) in sequential and repeated manner, said shifting causes resolution of output image frames to appear higher than display resolution of image renderer.

IPC 8 full level

**G09G 3/00** (2006.01)

CPC (source: EP)

**G02B 27/0093** (2013.01); **G02B 27/0172** (2013.01); **G09G 3/002** (2013.01); **G09G 3/007** (2013.01); **G02B 2027/0138** (2013.01); **G02B 2027/014** (2013.01); **G02B 2027/0187** (2013.01); **G09G 3/36** (2013.01); **G09G 2340/0407** (2013.01); **G09G 2340/0457** (2013.01); **G09G 2340/0464** (2013.01); **G09G 2354/00** (2013.01)

Citation (search report)

See references of WO 2021156548A1

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)

**WO 2021156548 A1 20210812**; EP 4052245 A1 20220907

DOCDB simple family (application)

**FI 2021050085 W 20210205**; EP 21705231 A 20210205