Title (en)

CONTEXTUAL MULTIPLANAR RECONSTRUCTION OF THREE-DIMENSIONAL ULTRASOUND IMAGING DATA AND ASSOCIATED DEVICES, SYSTEMS, AND METHODS

Title (de)

KONTEXTUELLE MULTIPLANARE REKONSTRUKTION VON DREIDIMENSIONALEN ULTRASCHALLBILDGEBUNGSDATEN UND ZUGEHÖRIGE VORRICHTUNGEN, SYSTEME UND VERFAHREN

Title (fr)

RECONSTRUCTION MULTIPLANAIRE CONTEXTUELLE DE DONNÉES D'IMAGERIE ULTRASONORES TRIDIMENSIONNELLES ET DISPOSITIFS, SYSTÈMES ET MÉTHODES ASSOCIÉS

Publication

EP 4114272 A1 20230111 (EN)

Application

EP 21707653 A 20210222

Priority

- US 202062985536 P 20200305
- EP 2021054251 W 20210222

Abstract (en)

[origin: WO2021175629A1] An ultrasound imaging system includes a processor circuit in communication with an ultrasound transducer configured to receive three-dimensional ultrasound data of an anatomy, and generate a target image corresponding to a target image plane of the anatomy, and a plurality of adjacent images corresponding to image planes adjacent to the target image plane along a simulated motion path. The processor circuit is further configured to display the target image, receive a user input representative of a direction of motion along the simulated motion path, and display an adjacent image of the plurality of adjacent images corresponding to the direction of motion. Accordingly, the user can observe the target image in its spatial context by scanning through the target image and one or more adjacent images on the display as if the ultrasound transducer were being scanned along the simulated motion path.

IPC 8 full level

A61B 8/08 (2006.01); **G01S 7/52** (2006.01); **G01S 7/539** (2006.01); **G01S 15/89** (2006.01); **G03B 42/06** (2021.01); **G06T 19/00** (2011.01)

CPC (source: EP US)

A61B 8/483 (2013.01 - EP US); **A61B 8/523** (2013.01 - EP US); **G01S 15/8993** (2013.01 - EP); **G06T 19/003** (2013.01 - EP); A61B 8/145 (2013.01 - EP); G01S 7/52073 (2013.01 - EP); G06T 2210/41 (2013.01 - EP)

Citation (search report)

See references of WO 2021175629A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021175629 A1 20210910; CN 115243621 A 20221025; EP 4114272 A1 20230111; JP 2023517512 A 20230426; US 2023054610 A1 20230223

DOCDB simple family (application)

EP 2021054251 W 20210222; CN 202180019152 A 20210222; EP 21707653 A 20210222; JP 2022552408 A 20210222; US 202117908289 A 20210222