

Title (en)
FLATTENED VIEW FOR INTRA-LUMENAL NAVIGATION

Title (de)
ABGEFLACHTE ANSICHT ZUR INTRALUMINALEN NAVIGATION

Title (fr)
VUE APLATIE POUR NAVIGATION INTRA-LUMINALE

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Application
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Abstract (en)
[origin: WO2019063161A1] Methods for creation and use (e.g., for navigation) of displays of flattened (e.g., curvature-straightened) 3-D reconstructions of tissue surfaces, optionally including reconstructions of the interior surfaces of hollow organs. In some embodiments, data comprising a 3-D representation of a tissue surface (for example an interior heart chamber surface) are subject to a geometrical transformation allowing the tissue surface to be presented substantially within a single view of a flattened reconstruction. In some embodiments, a catheter probe in use near the tissue surface is shown in positions that correspond to positions in 3-D space sufficiently to permit navigation; e.g., the probe is shown in flattened reconstruction views nearby view regions corresponding to regions it actually approaches. In some embodiments, automatic and/or easily triggered manual view switching between flattened reconstruction and source reconstruction views is implemented.

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SENDRA G. HERNÁN ET AL: "2D map projections for visualization and quantitative analysis of 3D fluorescence micrographs", SCIENTIFIC REPORTS, vol. 5, no. 1, 18 December 2015 (2015-12-18), XP055896310, Retrieved from the Internet <URL:https://www.nature.com/articles/srep12457.pdf> DOI: 10.1038/srep12457

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