

Title (en)

APPARATUS AND METHOD FOR PROCESSING IMAGES OF TISSUE SAMPLES

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERARBEITUNG VON GEWEBEPROBENBILDERN

Title (fr)

APPAREIL ET PROCÉDÉ POUR TRAITER LES IMAGES D'ÉCHANTILLONS DE TISSUS

Publication

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Application

EP 14728603 A 20140509

Priority

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- GB 2014051426 W 20140509

Abstract (en)

[origin: GB2513916A] A computer implemented image processing method of identifying a tissue boundary of a tumour region of a tissue sample 2, the tissue sample containing non-tumour regions and at least one tumour region, to enable excision of at least a portion of a tumour region from the tissue sample by cutting along the tissue boundary, the method comprises: obtaining an image of a tissue section of the tissue sample 4 such as an histology slide 10; identifying at least one image property of the image; comparing the image property with classification data; based on the comparison, classifying a region of the image as a tumour region representing a tumour region in the tissue sample or a non-tumour region representing a non-tumour region in the tissue sample; and if the region of the image is classified as a tumour region, identifying a boundary of the region of the image; and using the boundary to identify a tissue boundary of the tumour region of the tissue sample represented by the region of the image. Preferably a macrodissection system 60 has a computer 20 which receives data from an imager 50, which using a smoothing algorithm generates a result of the image which is then sent to a controller 30. The controller controls a cutting device 40 based on the result.

IPC 8 full level

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Citation (search report)

See references of WO 2014181123A1

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