

Title (en)

SYSTEM FOR OPTICALLY SECTIONING AND MAPPING SURGICALLY EXCISED TISSUE

Title (de)

SYSTEM ZUM OPTISCHEN DURCHSCHNEIDEN UND ZUR ABBILDUNG CHIRURGISCH AUSGESCHNITTENEN GEWEBES

Title (fr)

SYSTEME DE COUPE OPTIQUE ET DE CARTOGRAPHIE D'UN TISSU EXCISE PAR INTERVENTION CHIRURGICALE

Publication

EP 1247246 A1 20021009 (EN)

Application

EP 00977080 A 20001110

Priority

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Abstract (en)

[origin: WO0135325A1] A map (MAP) is created from digital images, of an excised tissue specimen (20), obtained by confocal reflectance light microscopy (10) so that the orientation of the excised specimen and the location of tissue regions of interest, for example showing basal and squamous cell cancers for use in Moh's surgery can be indicated to the surgeon for use in the extirpation of the undesirable cells, such as malignancies. Images of slices (34) through the excised specimen can be obtained by confocal microscopy to obtain confocal maps which show the histopathology of the excision from a single excision, and without the need for slicing the excised specimen into sections for sectioning, dyeing, and coding of the regions of interest on an anatomic map, thereby reducing the time for detection of suspicious regions.

[origin: WO0135325A1] A display (34) provides from digital images of an excised tissue specimen the orientation and location of tissue and regions of interest (cancers). Images of slices through excised specimen are obtained using a confocal microscope (10) to obtain confocal maps to provide a mosaic of images each of which corresponds to a different map element. A macroscopic image of significant map elements and high resolution images of selected elements are provided to locate and mark regions which are cancerous thereby assisting the surgeon to excise such regions.

IPC 1-7

G06K 9/00

IPC 8 full level

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