

Title (en)

METHOD AND DEVICE FOR ANALYZING SURFACE STRUCTURE

Title (de)

VERFAHREN UND ANORDNUNG ZUR ANALYSE DER BESCHAFFENHEIT EINER OBERFLÄCHE

Title (fr)

PROCEDE ET DISPOSITIF POUR L'ANALYSE DE LA STRUCTURE D'UNE SURFACE

Publication

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Application

**EP 98930805 A 19980615**

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Abstract (en)

[origin: DE19725633C1] The invention relates to a method for analyzing surface structure using the images of a camera, wherein at least two images are obtained by illumination of focused and/or diffuse light and individual image data is converted into digital signals, whereupon a computer-assisted three-dimensional representation is generated. The invention also relates to a recording device to implement said method using a video camera (1, 15) and a lighting fixture (16) allocated thereto, wherein the lighting fixture (16) has a first lighting system (D) to produce diffuse light and a second lighting system (G) to produce focused light, in addition to a control device enabling independent electronic control of the first and second lighting systems. The invention further relates to an arrangement to implement the above-mentioned method, comprising the afore-mentioned device, a video recording card to digitize image data generated by the recording device, a data storage unit to store digitized image data, and an evaluation device to generate a computer-assisted three-dimensional image on the basis of the stored image data.

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