

Title (en)  
ENDOSCOPE HAVING 3D FUNCTIONALITY

Title (de)  
ENDOSKOP MIT 3D-FUNKTIONALITÄT

Title (fr)  
ENDOSCOPE AVEC FONCTIONNALITÉ 3D

Publication  
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Application  
**EP 11749807 A 20110823**

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Abstract (en)  
[origin: WO2012059253A1] The invention relates to an endoscope (10) for quantitatively determining dimensions of an object (5) in a cavity, wherein a projector (4) connected to a light guide (3) can be introduced through the instrument channel (7). In the introduced position, the projector projects a pattern at a defined illumination angle ( $\alpha$ ) onto the object (5) to be examined. The camera (1) captures said projected pattern at a fixed viewing angle ( $\beta$ ) in a distorted form corresponding to the object (5). By means of a triangulation method the distorted form is used for quantitatively determining dimensions of the object (5).

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